Hanford Facility
Resource Conservation and Recovery Act Permit, Dangerous Waste Portion

Revision 9A

For the Treatment, Storage, and Disposal of Dangerous Waste

Washington State Department of Ecology
Nuclear Waste Program

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PART I STANDARD AND PART II GENERAL FACILITY CONDITIONS DANGEROUS WASTE PORTION OF THE RESOURCE CONSERVATION AND RECOVERY ACT PERMIT FOR THE TREATMENT, STORAGE, AND DISPOSAL OF DANGEROUS WASTE

CHANGE CONTROL LOG

Change Control Logs ensure that changes to this unit are performed in a methodical, controlled, coordinated, and transparent manner. Each unit addendum will have its own change control log with a modification history table. The "**Modification Number**" represents Ecology's method for tracking the different versions of the permit. This log will serve as an up to date record of modifications and version history of the unit.

Modification History Table

Modification Date	Modification Number
03/17/2025	PCN-HFSW-2024-05 (8C.2025.Q1)
09/10/2024	PCN-HFSW-2024-03 (8C.2024.Q3)
06/05/2024	PCN-HFSW-2024-01 (8C.2024.Q2)
11/22/2022	PCN-HFSW-2022-01 (8C.2022.Q4)
09/15/2021	PCN-HFSW-2021-02 (8C.2021.Q3)
07/21/2021	PCN-HFSW-2021-01 (8C.2021.Q3)
04/27/2021	PCN-HFSW-2020-02 (8C.2021.Q2)
01/29/2021	8C.2020.12F
01/26/2021	PCN-HFSW-2020-03 (8C.2021.Q1)
11/16/2020	8C.2020.10F
08/27/2020	PCN-276-BA-2020-01 (8C.2020.Q3)
06/24/2020	8C.2020.5F
05/11/2020	8C.2020.2F
04/27/2020	PCN-HFSW-2020-01 (8C.2020.Q2)
02/20/2020	8C.2020.1F
04/23/2019	PCN-HFSW-2019-03 (8C.2019.Q2)
04/01/2019	8C.2019.1F
03/14/2019	PCN-HFSW-2019-01 (8C.2019.Q1)
12/12/2018	PCN-1325-2016-02 (8C.2018.Q4)
12/12/2018	PCN-1301-2016-02 (8C.2018.Q4)
12/12/2018	PCN-HFSW-2016-02 (8C.2018.Q4)
09/18/2018	PCN-HFSW-2018-01 (8C.2018.Q3)
08/28/2018	PCN-HFSW-2018-02 (8C.2018.Q3)
07/09/2018	PCN-PWSTF-2016-01 (8C.2018.Q3)
06/14/2018	PCN-1324-2016-02 (8C.2018.Q2)
06/14/2018	PCN-1706KE-2016-01 (8C.2018.Q2)
11/01/2017	8C.2017.Q3

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Modification Date	Modification Number
07/19/2017	8C.2017.Q2
04/26/2017	8C.2017.Q1
03/01/2017	8C.2016.Q4
12/15/2016	8C.2016.Q3
10/06/2016	8C.2016.6F

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DANGEROUS WASTE PORTION OF THE RESOURCE CONSERVATION AND RECOVERY ACT PERMIT FOR THE TREATMENT, STORAGE, AND DISPOSAL OF DANGEROUS WASTE

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Issued in accordance with the applicable provisions of the Hazardous Waste Management Act, Chapter 70A.300 Revised Code of Washington (RCW), and the regulations promulgated there under in Chapter 173-303 Washington Administrative Code (WAC).

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DANGEROUS WASTE PORTION OF THE RESOURCE CONSERVATION AND RECOVERY ACT PERMIT FOR THE TREATMENT, STORAGE, AND DISPOSAL OF DANGEROUS WASTE

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LIST OF ATTACHMENTS

The following documents are incorporated by reference into this Permit. These incorporated documents are enforceable conditions of this Permit. Changes to portions of the attachments, which are not subject to the permit modification process, will be addressed in accordance with Permit Conditions I.E.5, I.E.7, I.E.8.c, I.E.8.a, through I.E.9.a, and I.E.11.b.iii. The Washington State Department of Ecology (Ecology) has, as deemed necessary, modified specific language in these attachments. These modifications are described in the conditions (Parts I through VI), and thereby supersede the language of the attachment.

Attachment 1	Hanford Federal Facility Agreement and Consent Order, (as amended) https://www.hanford.gov/page.cfm/TriParty
Attachment 2	Hanford Facility Permit Legal Description & Operating Boundary
Attachment 3	Security
Attachment 4	Hanford Emergency Management Plan
Attachment 4A	Building Emergency Directors/Building Wardens
Attachment 5	Hanford Facility Personnel Training Program
Attachment 6	Recordkeeping and Reports
Attachment 7	Reserved
Attachment 8	Inspection and Training Plan for Groundwater Monitoring Wells
Attachment 9	Permit Applicability Matrix
Attachment 10	Strategy for Handling and Disposing of Purgewater at the Hanford Site
Attachment 11	Groundwater Monitoring Quality Assurance Project Plan and Sampling Protocol
Facility Map	(Map is available for viewing in the Washington State Department of Ecology's Nuclear Waste Program Resource Center).

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INTRODUCTION

Where information regarding treatment, management, and disposal of the radioactive source, byproduct material, special nuclear material (as defined by the *Atomic Energy Act of 1954*, as amended) and/or the radionuclide component of mixed waste has been incorporated into this Permit, it is not incorporated for the purpose of regulating the radiation hazards of such components under the authority of this Permit or Chapter 70A.300 RCW.

Pursuant to Chapter 70A.300 RCW, the *Hazardous Waste Management Act of 1976* (HWMA), as amended, Chapter 70A.305 RCW, the *Hazardous Waste Cleanup—Model Toxics Control Act* (MTCA), and regulations promulgated thereunder by the Washington State Department of Ecology (hereafter called Ecology), codified in Chapter 173-303 WAC, *Dangerous Waste Regulations*, a Dangerous Waste Permit is issued to the United States Department of Energy (USDOE) – Hanford Field Office (HFO), and its contractors (co-operators) Bechtel National, Incorporated (BNI); Central Plateau Cleanup Company, LLC (CPCCo); Hanford Laboratory Management and Integration, LLC (HLMI); Hanford Mission Integration Solutions (HMIS); Hanford Tank Waste Operations & Closure, LLC (H2C); Pacific Northwest National Laboratory (PNNL) and hereafter called the Permittees, for the treatment, storage, and disposal of dangerous waste at the Hanford Facility.

This Dangerous Waste Permit, issued in conjunction with the United States Environmental Protection Agency's (EPA) Hazardous and Solid Waste Amendments Portion of the Resource Conservation and Recovery Act (RCRA) Permit for the Treatment, Storage, and Disposal (TSD) of Hazardous Waste (HSWA Permit), constitutes the RCRA Permit for the Hanford Facility. Use of the term "Permit" within the Dangerous Waste Permit will refer to the Dangerous Waste Permit, while use of the term "Permit" within the HSWA Permit, will refer to the HSWA Permit. Use of the same term in both the Dangerous Waste Permit and the HSWA Permit, will have the standard meaning associated with the activities addressed by the permit in which the term is used. Such meanings will prevail, except where specifically stated otherwise.

The Permittees will comply with all terms and conditions set forth in this Permit and those portions of the Attachments that have been specifically incorporated into this Permit. When the Permit and the Attachments (except Permit Attachment 1) conflict, the wording of the Permit will prevail. The Permit is intended to be consistent with the terms and conditions of the Hanford Federal Facility Agreement and Consent Order (HFFACO, Permit Attachment 1). The Permittees will also comply with all applicable state regulations, including Chapter 173-303 WAC.

Applicable state regulations are those which are in effect on the date of issuance, or as specified in subsequent modifications of this Permit. In addition, applicable state regulations include any self-implementing statutory provisions and related regulations which, according to the requirements of the HWMA, as amended, or other law(s), are automatically applicable to the Permittees' dangerous waste management activities, notwithstanding the conditions of this Permit.

This Permit is based upon the Administrative Record, as required by WAC 173-303-840. The Permittees' failure in the application, or during the Permit issuance process, to fully disclose all relevant facts, or the Permittees' misrepresentation of any relevant facts at any time, will be grounds for the termination or modification of this Permit and/or initiation of an enforcement action, including criminal proceedings. The Permittees will inform Ecology of any deviation from the Permit Conditions, or changes in the information on which the application is based, which would affect either the Permittees' ability to comply, or actual compliance with the applicable regulations or the Permit Conditions, or which alters any condition of this Permit in any way.

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Ecology will enforce all conditions of this Permit for which the State of Washington is authorized, or which are "state-only" provisions (i.e., conditions broader in scope or more stringent than the federal RCRA program). Any challenges of any Permit Condition may be appealed in accordance with WAC 173-303-845. In the event that any Permit Condition is challenged by any Permittee under WAC 173-303-845, Ecology may stay any such Permit Condition as it pertains to all Permittees, in accordance with the same terms of any stay it grants to the challenging Permittee. If such a stay is granted, it will constitute a "stay by the issuing agency" within the meaning of RCW 43.21B.320(1).

This Permit has been developed to allow a step-wise permitting process of the Hanford Facility to ensure the proper implementation of the HFFACO. In order to accomplish this, this Permit consists of six (6) parts.

Part I, Standard Conditions, contains conditions which are similar to those appearing in all dangerous waste permits.

Part II, General Facility Conditions, combines typical dangerous waste Permit Conditions with those conditions intended to address issues specific to the Hanford Facility. Where appropriate, the general facility conditions apply to all final status dangerous waste management activities at the Facility. Where appropriate, the general facility conditions also address dangerous waste management activities which may not be directly associated with distinct TSD units, or which may be associated with many TSD units (i.e., spill reporting, training, contingency planning, etc.). Part II also includes conditions that address corrective action at Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs).

Part III, Unit-Specific Conditions for Operating Units, contains those Permit requirements that apply to each individual TSD unit operating under final status. Conditions for each TSD unit are found in a chapter dedicated to that TSD unit. These unit-specific chapters contain references to Standard Conditions (Part I) and General Conditions (Part II), as well as additional requirements which are intended to ensure that each TSD unit is operated in an efficient and environmentally protective manner. Additional requirements may also be added when an operating unit ceases operations and undergoes closure.

Part IV, Unit-Specific Conditions for Corrective Action, contains Permit Conditions for releases from SWMUs and AOCs. For past-practice units identified in the HFFACO as either Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Past-Practice units (CPP units) or combined RCRA-Comprehensive Environmental Response, CERCLA Act Past Practice units (R-CPP units), the corrective action conditions are structured around reliance on, the investigation and cleanup requirements established under the HFFACO. For TSD units identified in the HFFACO, the corrective action conditions contemplate use of closure and post-closure processes to satisfy corrective action.

Part V, Unit-Specific Conditions for Units Undergoing Closure, contains those requirements which apply to those specific TSD units, included in this part, that are undergoing closure. In accordance with Section 5.3 of the Action Plan of the HFFACO, all TSD units that undergo closure, irrespective of permit status, will be closed pursuant to the authorized State Dangerous Waste Program in accordance with WAC 173-303-610. Requirements for each TSD unit undergoing closure are found in a chapter dedicated to that TSD unit. These unit-specific chapters contain references to Standard Conditions (Part I) and General Conditions (Part II), as well as additional requirements which are intended to ensure that each TSD unit is closed in an efficient and environmentally protective manner.

Part VI, Unit-Specific Conditions for Units in Post-Closure, contains those requirements which apply to those specific units in this part that have completed modified or landfill closure requirements, and now only need to meet Post-Closure Standards. As set forth in Section 5.3 of the Action Plan of the HFFACO, certain TSD units will be permitted for post-closure care pursuant to the authorized State Dangerous Waste Program (WAC 173-303) and the Hazardous and Solid Waste Amendments. Requirements for each unit undergoing post-closure care are found in a chapter, within this part, dedicated to that unit.

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These unit-specific chapters may contain references to Standard Conditions (Part I) and General Conditions (Part II), as well as the unit-specific conditions, all of which are intended to ensure the unit is managed in an efficient, environmentally protective manner.

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Unit Status Table

Permit Revision	Revision Date	Units Incorporated
Permit Revision 0	8/29/94	616 Nonradioactive Dangerous Waste Storage Facility (NRDWSF) 305-B Storage Facility, 183-H Solar Evaporation Basin (SEB), 300 Area Solvent Evaporator (ASE), 2727-S
Permit Revision 1	4/28/95	Simulated High-Level Waste Slurry, 218-E-9 Borrow Pit Demo Site, 200 W Area Ash Pit Demo Site, 2101-M Pond, 216-B-3 Expansion Ponds
Permit Revision 2	8/29/95	Hanford Patrol Academy Demolition Site, 105-DR Large Sodium Fire Facility, 304 Concretion Facility
Permit Revision 3	11/25/96	Plutonium Uranium Extraction Plant (PUREX) Storage Tunnels, 4843 Alkali Metal Storage Facility, 3718-F Alkali Metal Treatment & Storage Facility, 303-K Storage Facility, 300 Area Process Trenches (APT)
Permit Revision 4	1/28/98	Liquid Effluent Retention Facility (LERF) & 200 Area Effluent Treatment Facility (ETF), 242-A Evaporator, 325 Hazardous Waste Treatment Units (HWTUs)
Permit Revision 5	5/18/99	100 D Ponds, 1301-N & 1325-Liquid Waste Disposal Facility, 1324-N Surface Impoundment, 1324-NA Percolation Pond
Permit Revision 6	3/28/00	Permit Condition II.Y, Corrective Action, 100-NR-1 Operable Unit, 100-NR-2 Operable Unit
Permit Revision 7	2/27/01	Waste Treatment & Immobilization Plant, 300 Area Waste Acid Treatment System (WATS)
Permit Revision 8	9/23/04	No new units, modification updates
Permit Revision 8A	3/6/06	Integrated Disposal Facility
Permit Revision 8B	1/2007	331-C Storage Unit, Plutonium Finishing Plant Treatment Unit, 241-Z Treatment & Storage Tanks, 303-M Oxide Facility
Permit Revision 8C	8/2007	400 Area Waste Management Unit, 224-T Transuranic Waste Storage and Assay Facility
Permit Revision 9	5/2012	LERF and 200 Area ETF, 242-A Evaporator, 325 HWMU, Central Waste Complex (CWC), Waste Receiving and Processing Facility, 222-S Dangerous & Mixed Waste, T-Plant Complex, Waste Treatment and Immobilization Plant, Integrated Disposal Facility, Double-Shell Tank System and 204-AR Waste Unloading Station, Waste Encapsulating Storage Facility, 331-C Storage Unit, 400 Area Waste Management Unit, Low-Level Burial Grounds Trench 31 & 34, Low-Level Burial Grounds Trench 94, CA-1 Waste Management Units, CA-2 Groundwater Operable Units, 1301-N Liquid Waste Disposal Facility, Single-Shell Tank System, 600 Area Purgewater Storage & Treatment, 207-A South Retention Basin, 216-A-29 Ditch, 216-A-36B Crib, 216-A-37-1 Crib, 216-S-10-Pond & Ditch, 241-CX Tank System, 1706-KE Waste Treatment System, Hexone Storage & Treatment Facility, Nonradioactive Dangerous Waste Landfill, 216-B-63 Trench, 216-B-3 Main Pond, Grout Treatment Facility, B Plant

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Unit Status Table

Permit Revision	Revision Date	Units Incorporated
		Complex, PUREX, Low-Level Burial Ground Closing Units (Green Islands), 300 APT, 183-H SEB, 1325-N Liquid Waste Disposal Facility, 1324-N Impoundment & 1324-NA Percolation Pond (Not issued)
Permit Revision 8C (8C.2016.2F)	01/21/2016	FS-1 Outdoor Container Storage Area Closure
Permit Revision 8C (8C.2016.6F)	10/6/2016	207-A South Retention Basins
Permit Revision 8C (8C.2017.Q1)	04/26/2017	1706-KE Waste Treatment System
Permit Revision 8C (8C.2017.Q1)	04/26/2017	600 Area Purgewater Storage and Treatment Facility
Permit Revision 8C (8C.2016.5F)	07/01/2016	Waste Encapsulation and Storage Facility Hot Cells A Through F
Permit Revision 8C (8C.2020.1F)	2/20/2020	Capsule Interim Storage
Permit Revision 8C (8C.2019.5F)	05/29/19	276-BA Storage Area Closure
Permit Revision 8C (8C.2020.10F)	11/16/20	Waste Encapsulation and Storage Facility Pool Cells, Hot Cell G, and Truckport
Permit Revision 8C (8C.2020.12F)	1/29/21	Low-Activity Waste Pretreatment System
Permit Revision 8C (8C.2021.9F)	8/25/2021	PUREX Tanks TK-P4 and TK-40
Permit Revision 8C (8C.2023.3F)	8/17/2023	277-T Building
Permit Revision 8C (8C.2023.3F)	8/17/2023	271-T Cage
Permit Revision 8C (8C.2023.3F)	8/17/2023	2401-W Waste Storage Building
Permit Revision 8C (8C.2023.3F)	8/17/2023	277-T Outdoor Storage Area
Permit Revision 8C (8C.2023.3F)	8/17/2023	211-T Pad
Permit Revision 8C (8C.2023.3F)	8/17/2023	221-T Sand Filter Pad
Permit Revision 8C (8C.2023.3F)	8/17/2023	221-T Railroad Cut

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Unit Status Table

Permit Revision	Revision Date	Units Incorporated
Permit Revision 9A	TBD	Low-Activity Waste Pretreatment System; LERF and 200 Area ETF; 242-A Evaporator; CWC; 325 HWTUs; 222-S Laboratory Complex; T Plant Complex; Waste Treatment and Immobilization Plant; Integrated Disposal Facility; Waste Encapsulation and Storage Facility; Double-Shell Tank System and 204-AR Waste Unloading Station; Capsule Interim Storage; Corrective Action CA-1 Waste Management Units; Corrective Action CA-2 Groundwater Operable Units; Low-Level Burial Ground Trenches 31 and 34; Low-Level Burial Ground Trench 94; Single-Shell Tank System; Waste Encapsulation and Storage Facility Hot Cells, A through F; 216-A-29 Ditch; 216-A-36B Crib; 216-A-37-1 Crib; 216-S-10 Pond & Ditch; 241-CX Tank System; Hexone Storage and Treatment Facility; Nonradioactive Dangerous Waste Landfill; 216-B-63 Trench; 216-B-3 Main Pond, B Plant Complex; PUREX, Low-Level Burial Grounds Green Islands; 324 Dangerous Waste Management Units, PUREX Tanks TK-P4 and TK-40, 277-T Building; 277-T Outdoor Storage Area, 277-T Outdoor Storage Area; 271-T Cage; 211-T Pad; 324 Dangerous Waste Management Units; CWC Outdoor Storage Area A; CWC Storage Area B; CWC: D-10 Tank Outdoor Storage Area Non-Consent Agreement and Final Order (CAFO); 221-T R5 Waste Storage Area (WSA) CAFO; 2401-West Storage Building; 2706-TB Tank System; 221-T Railroad Cut; 221-T Pipe Gallery; 221-T Tank System; 221-T Sand Filter Pad; 400 Area Waste Management Units; AY-102; 221-T Cell 11-L; Waste Receiving and Processing Facility, 325 High-Level Vault Tanks, 300 APT; 183-H SEB

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Unit	Permit Revision		Comments/History
	Incorporated	Retired	
Part III, Operating Units			
616 NRDWSF	Rev. 6	Rev. 7	Closed, 9/5/01
242-A Evaporator	Rev. 4		
305-B Storage Facility	Rev. 0		Closed, 7/2/07
325 HWTU	Rev. 4		Radioactive Liquid Waste Tank (RLWT) procedural closure, 9/04
LERF & 200 Area ETF	Rev. 4		
PUREX Storage Tunnels	Rev. 3		Unit group requirements were moved from Part III to Part V Revision 8C (8C.2018.5F, 12/17/18)
Waste Treatment and Immobilization Plant	Rev. 7		Permitted unit under construction
Integrated Disposal Facility	Rev. 8A		
331-C Storage Unit	Rev. 8B	Rev. 8C	Closed, 7/22/11
400 Area Waste Management Unit	Rev. 8C		
Capsule Interim Storage	Rev. 8C		
Waste Encapsulation and Storage Facility Pool Cells, Hot Cell G, and Truckport	Rev. 8C		
Low-Activity Waste Pretreatment System	Rev.8C		
PUREX Tanks TK-P4 and TK-40	Rev. 8C		
277-T Building Non-CAFO	Rev. 8C		
271-T Cage CAFO	Rev. 8C		
2401-W Waste Storage Building	Rev. 8C		
277-T Outdoor Storage Area CAFO	Rev. 8C		
211-T Pad CAFO	Rev. 8C		
221-T Sand Filter Pad CAFO	Rev. 8C		
221-T Railroad Cut Non-CAFO	Rev. 8C		
Part IV, Corrective Action			
100-NR-1 Operable Unit	Rev. 6		
100-NR-2 Operable Unit	Rev. 6	Rev. 8C	Retired, 9/30/09
Part V, Undergoing Closure Units			
100-D Ponds	Rev. 5	Rev. 6	Closed, 8/9/99

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Unit	Permit Revision		Comments/History
	Incorporated	Retired	
105 DR Large Sodium Fire Facility	Rev. 2	Rev. 6	Closed, 7/1/04
1301-N Liquid Waste Disposal Facility	Rev. 5	Rev. 8C	Closed, 11/28/18
1324-N Surface Impoundment	Rev. 5	Rev. 8C	Closed, 4/25/17
1324-NA Percolation Pond	Rev. 5	Rev. 8C	Closed, 4/25/17
1325-N Liquid Waste Disposal Facility	Rev. 5	Rev. 8C	Closed, 11/28/18
200 West Area Ash Pit Demo Site	Rev. 1	Rev. 6	Closed, 11/28/95
2101-M Pond	Rev. 1	Rev. 6	Closed, 11/28/95
216-B-3 Expansion Ponds	Rev. 1	Rev. 6	Closed, 7/31/95
218-E-8 Borrow Demolition Site	Rev. 1	Rev. 6	Closed, 11/28/95
2727-S Storage Facility	Rev. 0	Rev. 6	Closed, 7/31/95
300 Area Solvent Evaporator	Rev. 0	Rev. 6	Closed, 7/31/95
300 Area WATS	Rev. 6	Rev. 8B	Closed, 1/21/05
303-K Storage Facility	Rev. 4	Rev. 6	Closed, 7/22/02
304 Concretion Facility	Rev. 2	Rev. 6	Closed, 1/21/96
311 Tanks (includes 300 Area WATS)	Rev. 6	Rev. 7	Closed, 5/20/02
3718-F Alkali Metal Treatment/Storage	Rev. 3	Rev. 6	Closed, 8/4/98
4843 Alkali Metal Storage Facility	Rev. 3	Rev. 6	Closed, 4/14/97
Hanford Patrol Academy Demo Site	Rev. 2	Rev. 6	Closed, 11/28/95
Simulated High-Level Waste Slurry	Rev. 1	Rev. 6	Closed, 9/6/95
Plutonium Finishing Plant (PFP) Treatment Unit (HA-20MB)	Rev. 8B	Rev. 8B	Closed, 2/8/05
241-Z Treatment and Storage Tanks	Rev. 8B	Rev. 8B	Closed, 2/22/07
303-M Oxide Facility	Rev. 8B	Rev. 8B	Closed, 6/15/06
224-T Transuranic Waste Storage and Assay Facility	Rev. 8C	Rev. 8C	Closed, 11/12/08
FS-1 Outdoor Container Storage Area Closure	Rev. 8C	Rev.8C	Closed, 10/25/16
Waste Encapsulation and Storage Facility Hot Cells A through F	Rev. 8C		

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Unit	Permit Revision		Comments/History
	Incorporated	Retired	
207-A South Retention Basins	Rev. 8C	Rev. 8C	Closed, 5/18/17
1706-KE Waste Treatment System	Rev. 8C	Rev. 8C	Closed, 1/11/18
600 Area Purgewater Storage and Treatment Facility	Rev. 8C	Rev. 8C	Closed, 2/16/18
PUREX Storage Tunnels	Rev. 8C		Unit group requirements were moved from Part III to Part V Revision 8C (8C.2018.5F, 12/17/18)
276-BA Storage Area	Rev. 8C	Rev. 8C	Closed, 5/18/2020
Part VI, Post-Closure Units			
183-H SEB	Rev. 4		Unit group requirements were moved from Part V to Part VI in Revision 6, 3/28/00
300 APT	Rev. 3		Unit group requirements were moved from Part V to Part VI in Revision 6, 3/28/00
Procedurally Closed			
216-U-12 Crib	N/A	N/A	Closed, 7/19/07
221-T Test Facility	N/A	N/A	Closed, 2/22/99
2727-WA Sodium Reactor Experiment (SRE) Sodium Storage Building	N/A	N/A	Closed, 2/22/99
324 Pilot Plant	N/A	N/A	Closed, 6/9/97
332 Storage Facility	N/A	N/A	Closed, 4/21/97
437 Maintenance and Storage Facility	N/A	N/A	Closed, 9/11/03
Biological Treatment Test Facilities	N/A	N/A	Closed, 12/10/96
Physical/Chemical Treatment Test Facilities	N/A	N/A	Closed, 5/13/96
Sodium Storage/Sodium Reaction	N/A	N/A	Closed, 9/17/03
Thermal Treatment Test Facilities	N/A	N/A	Closed, 5/13/96
216-A-10	N/A	N/A	Closed, 5/14/10
To Be Incorporated through the Hanford Site-wide Permit Renewal, Rev. 9A			
216-A-29 Ditch Closure Unit Group			
216-A-36B Crib Closure Unit Group			

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Unit	Permit Revision		Comments/History
	Incorporated	Retired	
216-A-37-1 Crib Closure Unit Group			
216-B-3 Main Pond Closure Unit Group			
216-B-63 Trench Closure Unit Group			
216-S-10 Pond & Ditch Closure Unit Group			
221-T R5 WSA CAFO Closure Unit Group			
221-T Pipe Gallery Non-CAFO Closure Unit Group			
221-T Tank System Non-CAFO Closure Unit Group			
221-T Cell 11-L Closure Unit Group			
222-S Laboratory Complex Operating Unit Group			
241-CX Tank System Closure Unit Group			
2706-TB Tank System Closure Unit Group			
324 Building, Closure Unit Group			
325 High-level Vault Tanks			
400 Area Waste Management Unit Closure Unit Group (Note: in Rev. 9 this was an operating unit group, and now its in closure in Rev. 9A.)			
B Plant Closure Unit Group			
CA-1 Waste Management Units Corrective Action Unit Group			
CA-2 Groundwater Operable Units Corrective Action Unit Group			
CWC Operating Unit Group			
CWC Outdoor Storage Area A CAFO			

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Unit	Permit Revision		Comments/History
	Incorporated	Retired	
CWC Outdoor Storage Area B CAFO			
CWC: D-10 Tank Outdoor Storage Area Non-CAFO			
Double-Shell Tank System/ 204-AR Waste Unloading Station Operating Unit Group			
DST 241-AY-102 Closure Unit Group			
Hexone Storage & Treatment Facility Closure Unit Group			
Low-Level Burial Grounds 31 and 34 Operating Unit Group			
Low-Level Burial Grounds 94 Operating Unit Group			
Low-Level Burial Grounds Green Islands Closure Unit Group			
Nonradioactive Dangerous Waste Landfill Closure Unit Group			
PUREX Closure Unit Group			
Single-Shell Tank System Closure Unit Group			
Waste Receiving and Processing Facility Operating Unit Group (Note: in Rev. 9 this was an operating unit group, and now its in closure in Rev. 9A.)			

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DEFINITIONS

Except with respect to those terms specifically defined below, all definitions contained in the HFFACO, May 1989, as amended, and in WAC 173-303-040 and other portions of Chapter 173-303 WAC are hereby incorporated, in their entirety, by reference into this Permit. For terms defined in both Chapter 173-303 WAC and the HFFACO, the definitions contained in Chapter 173-303 WAC will control within this Permit. Nonetheless, this Permit is intended to be consistent with the HFFACO.

Where terms are not defined in the regulations, the Permit, or the HFFACO, a standard dictionary reference, or the generally accepted scientific or industrial meaning of the terms will define the meaning associated with such terms.

As used in this Permit, words in the masculine gender also include the feminine and neutral genders, words in the singular include the plural, and words in the plural include the singular.

The following definitions apply throughout this Permit:

The term **"Contractor(s)"** means, unless specifically identified otherwise in this Permit, or Attachments, BNI; CPCCo; HLMI; HMIS; H2C; and PNNL.

The term **"Dangerous Constituent"** means any constituent identified in WAC 173-303-9905 or 40 Code of Federal Regulations (CFR) Part 264 Appendix IX, any constituent which caused a waste to be listed or designated as dangerous under Chapter 173-303 WAC, and any constituents within the meaning of hazardous substance at RCW 70A.305.020(13).

The term **"Dangerous Waste"** means those solid wastes designated under Chapter 173-303 WAC as dangerous or extremely hazardous waste. As used in the Permit, the phrase "dangerous waste" will refer to the full universe of wastes regulated by Chapter 70A.300 RCW and Chapter 173-303 WAC (including dangerous waste, hazardous waste, extremely hazardous waste, mixed waste, and acutely hazardous waste).

The term **"Dangerous Waste Permit"** (previously referred to as "RCRA Permit") means the Dangerous Waste Portion of the RCRA Permit for the Treatment, Storage, and Disposal of Dangerous Waste (Dangerous Waste Permit) issued by the Washington State Department of Ecology, pursuant to Chapter 70A.300 RCW and Chapter 173-303 WAC, coupled with the HSWA Portion of the RCRA Permit for the Treatment, Storage, and Disposal of Hazardous Waste (HSWA Permit) issued by EPA, Region 10, pursuant to 42 United States Code (U.S.C.) 6901 et seq. and 40 CFR Parts 124 and 270.

The term **"Days"** means calendar days, unless specifically identified otherwise. Any submittal, notification, or recordkeeping requirement that would be due, under the Conditions of this Permit, on a Saturday, Sunday, or federal, or state holiday, will be due on the following business day, unless specifically stated otherwise in the Permit.

The term **"Director"** means the Director of the Washington State Department of Ecology, or a designated representative. The Deputy Program Manager of the Nuclear Waste Program (with the address as specified on the Signature page of this Permit) is a duly authorized and designated representative of the Director for purposes of this Permit.

The term **"Ecology"** means the Washington State Department of Ecology (with the address as specified on page ii of this Permit).

The term **"Facility"** means all contiguous land, structures, other appurtenances, and improvements on the land used for recycling, reusing, reclaiming, transferring, storing, treating, or disposing of dangerous waste.

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The term **"Facility"** for the purposes of corrective action under Permit Condition II.Y, means all contiguous property under the control of the Permittees and all property within the meaning of "Facility" at RCW 70A.305.020(8).

The term **"HFFACO"** means the Hanford Federal Facility Agreement and Consent Order, as amended (Commonly referred to as Tri-Party Agreement [TPA]).

The term **"Permittees"** means the United States Department of Energy (owner/operator); BNI (Co-operator); CPCCo (Co-operator); HLMI (Co-operator); HMIS; H2C (Co-operator); and PNNL (Co-operator).

The term **"Permittees"** for purposes of corrective action under Permit Condition II.Y means only the United States Department of Energy (owner/operator).

The term **"Raw Data"** means the initial value of analog or digital instrument output, and/or manually recorded values obtained from measurement tools or personal observation. These values are converted into reportable data (e.g., concentration, percent moisture) via automated procedures and/or manual calculations.

The term **"Reasonable Times"** means normal business hours; hours during which production, treatment, storage, construction, disposal, or discharge occurs, or times when Ecology suspects a violation requiring immediate inspection.

The term **"Release"** means any intentional or unintentional spilling, leaking, pouring, emitting, emptying, discharging, injecting, pumping, escaping, leaching, dumping, or disposing of dangerous wastes, or dangerous constituents as defined at WAC 173-303-64610(4), into the environment and includes the abandonment or discarding of barrels, containers, and other receptacles containing dangerous wastes or dangerous constituents and includes the definition of release at RCW.70A.305.020(32).

The term **"Significant Discrepancy"** in regard to a manifest or shipping paper, means a discrepancy between the quantity or type of dangerous waste designated on the manifest, or shipping paper, and the quantity or type of dangerous waste a TSD unit actually receives. A significant discrepancy in quantity is a variation greater than ten (10) percent in weight for bulk quantities (e.g., tanker trucks, railroad tank cars, etc.), or any variation in piece count for nonbulk quantities (i.e., any missing container or package would be a significant discrepancy). A significant discrepancy in type is an obvious physical or chemical difference which can be discovered by inspection or waste analysis (e.g., waste solvent substituted for waste acid).

The term **"Solid Waste Management Unit (SWMU)"** means any discernible location at the Facility where solid wastes have been placed at any time, irrespective of whether the location was intended for the management of solid or dangerous waste, and includes any area at the Facility at which solid wastes have been routinely and systematically released (for example through spills), and includes dangerous waste treatment, storage, and disposal units.

The term **"Unit" or "TSD unit,"** as used in Parts I through VI of this Permit, means the contiguous area of land on or in which dangerous waste is placed, or the largest area in which there is a significant likelihood of mixing dangerous waste constituents in the same area. A TSD unit, for purposes of this Permit, is a subgroup of the Facility which has been identified in a Hanford Facility Dangerous Waste Part A Form.

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1 **ACRONYMS**

ALARA	As Low As Reasonably Achievable
AMSF	Alkali Metal Storage Facility
APDS	Ash Pit Demolition Site
APP	Used to Denote Appendix Page Numbers
APT	Area Process Trenches
ARAR	Applicable, Relevant, and Appropriate Requirements
BBI	Best Basis Inventory
BNI	Bechtel National, Inc.
BPDS	Borrow Pit Demolition Site
CD/RR	Chemical Disposal/Recycle Request
CERCLA	*Comprehensive Environmental Response Compensation and Liability Act of 1980* (as amended by the *Superfund Reauthorization Act of 1986*)
CFR	Code of Federal Regulations
CIP	Construction Inspection Plan
CLARC	Cleanup Levels and Risk Calculations
CLP	Contract Laboratory Program
COC	Chemical Contaminants of Concern
CPP	CERCLA Past Practice
CPCCo	Central Plateau Cleanup Company, LLC
DQO	Data Quality Objective
DSC	Differential Scanning Colorimetry
EC	Emergency Coordinator
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
ERA	Expedited Response Action
ETF	200 Area Effluent Treatment Facility
HFFACO	Hanford Federal Facility Agreement and Consent Order
GW	Groundwater
H2C	Hanford Tank Waste Operations & Closure, LLC
HLMI	Hanford Laboratory Management and Integration, LLC
HMIS	Hanford Mission Integration Solutions
HPADS	Hanford Patrol Academy Demolition Site
HSWA	*Hazardous and Solid Waste Amendments of 1984*
HWMA	Hazardous Waste Management Act
ID	Identification
IRM	Interim Remedial Measure
LDR	Land Disposal Restrictions
LERF	Liquid Effluent Retention Facility
LSFF	105-DR Large Sodium Fire Facility

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Mgal	Million Gallons
MTCA	Model Toxics Control Act
NRDWL	Nonradioactive Dangerous Waste Landfill
NRDWSF	616 Nonradioactive Dangerous Waste Storage Facility
OSWER	Office of Solid Waste and Emergency Response
PNNL	Pacific Northwest National Laboratory
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RCRA	*Resource Conservation and Recovery Act of 1976*
RCW	Revised Code of Washington
ROD	Record of Decision
RPD	Relative Percent Difference
RPP	RCRA Past Practice
SAP	Sampling and Analysis Plan
SARA	*Superfund Amendments and Reauthorization Act of 1986*
SCD	Security Control Devices
SHLWS	Simulated High-Level Waste Slurry
SOP	Standard Operating Procedure
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
TSD	Treatment, Storage, and/or Disposal
USDOE	United States Department of Energy
USDOE-HFO	U.S. Department of Energy, Hanford Field Office
U.S.C.	United States Code
WAC	Washington Administrative Code
WAP	Waste Analysis Plan
WTP	Waste Treatment and Immobilization Plant
183-H	183-H Solar Evaporation Basins
242-A	242-A Evaporator
300 APT	300 Area Process Trenches
300 ASE	300 Area Solar Evaporator
303-K	303-K Storage Facility
305-B	305-B Storage Facility
325 HWTUs	325 Hazardous Waste Treatment Units

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PART I STANDARD CONDITIONS

I.A Effect of Permit

I.A.1 The Permittees are authorized to store and treat and dispose of dangerous waste in accordance with the Conditions of this Permit. These Conditions include applicable requirements of Chapter 173-303 WAC as specified in the Permit, any self-implementing regulations in Chapter 173-303 WAC, and self-implementing statutory provisions and related regulations which are automatically applicable to the Permittees' dangerous waste management activities according to the HWMA, as amended, or other laws.

I.A.2 Any storage, treatment or disposal of the dangerous waste that requires a permit under Chapter 173-303 WAC is prohibited at this facility unless that activity is authorized by this Permit or by temporary authorization granted by Ecology pursuant to WAC 173-303-830(4)(e).

I.A.3 Conducting an activity at the facility that requires a permit under Chapter 173-303 WAC and is not authorized by this Permit or a temporary authorization under WAC 173-303-830(4)(e) is subject to enforcement of all applicable state and federal laws and regulations.

I.A.4 The Permittees are authorized to continue to manage newly regulated dangerous wastes or to continue to use newly regulated dangerous waste management units subject to all limits, conditions and procedures in WAC 173-303-830(4)(g)(i)(A) through (E). For this condition to apply, the unit must have been in existence as a dangerous waste facility with respect to the newly listed or identified waste or newly regulated waste management unit on the effective date of the final rule listing or identifying the wastes, or regulating the unit according to WAC 173-303-830(4)(g)(i)(A). Reference Attachment 9 for the applicable dangerous waste management units within the Hanford Site.

I.A.5 Pursuant to WAC 173-303-810(8), compliance with this Permit during its term constitutes compliance for the purpose of enforcement with Chapter 173-303 WAC for waste management activities covered under this Permit except as provided for in WAC 173-303-810(8)(a)(i) through (iv). Compliance with this Permit does not constitute a defense to any order issued or any action brought under other state or federal laws or regulations. Except as otherwise provided in this Permit, regulatory and other requirements incorporated by reference are the regulatory or other requirements as they exist as the effective date of the final permit.

I.A.6 The Permittees are subject to the requirements in Chapter 173-303 WAC for any activity not authorized by this Permit or for activities not subject to a permit under Chapter 173-303 WAC, including but not limited to generator and transporter requirements at WAC 173-303-170 through -270.

I.A.7 USDOE is responsible for compliance with the conditions of this Permit, including but not limited to management and operation of the Hanford Facility as defined in Attachment 9, *Permit Applicability Matrix*, as necessary to ensure such compliance. [WAC 173-303-810(2)]

I.A.7.a USDOE is responsible for compliance with conditions of this Permit for which its contractors have operational and/or management responsibilities and control. [WAC 173-303-810(2)]

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I.A.7.b Where USDOE has contracted with an Operator to operate the Hanford Facility or some part thereof, the Operator will be jointly responsible for compliance with the corresponding requirements of the Permit with USDOE, including any permit modification as performed under I.C.1.b. [WAC 173-303-810(2)]

I.A.8 Property Rights

I.A.8.a Issuance of this Permit does not convey any property rights of any sort, or any exclusive privilege.

I.A.8.b Issuance of this Permit does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local laws or regulations.

I.B Coordination with the Hanford Federal Facility Agreement and Consent Order and Consent Decree

I.B.1 Where requirements and schedules of the HFFACO, or requirements and schedules developed and approved under the HFFACO, are incorporated by reference into this Permit, they are incorporated as they are in place under the HFFACO at the time of initial incorporation and as they are in the future established in or developed and approved under the HFFACO, as amended. If the Permittees are not in compliance with any requirements or schedules so incorporated, Ecology may take action to independently enforce those requirements or schedules as requirements under this Permit. In the event the HFFACO is vacated or terminated, the requirements and schedules incorporated into this Permit will continue to be enforceable conditions of this Permit, unless or until modified under this Permit.

I.B.2 Coordination with the Consent Decree in Washington v. Chu, Case No. 08-5085-FVS. Where requirements and schedules under the Consent Decree in Washington v. Chu, Case No. 08-5085-FVS (Chu Decree) are incorporated by reference into this Permit, they are incorporated as they are currently in place under the Chu Decree and as they are in the future developed and approved under the Chu Decree, as amended.

I.C Permit Actions

I.C.1 Permit Modification, Revocation, Reissuance, or Termination

I.C.1.a Ecology may modify, revoke and reissue, or terminate this Permit if there is cause as specified in WAC 173-303-830(3) and (5).

I.C.1.a.i When a Permit is modified only the conditions subject to modification are reopened. All other aspects of the existing permit remain in effect for the duration of the permit.

I.C.1.a.ii If a permit is revoked or reissued the entire permit is reopened and subject to revision and the permit is reissued as a new permit. The Permittees must comply with all conditions of the existing permit until a new final permit is reissued.

I.C.1.a.iii If Ecology tentatively decides to terminate the permit, it will issue a notice of intent to terminate and follow procedures in WAC 173-303-840(2).

I.C.1.b Permit modifications at the request of the Permittees must comply with procedures and other requirements of the three-tiered modification system specified in WAC 173-303-830(4).

I.C.1.c The filing of a request by the Permittees for a permit modification, revocation and reissuance, termination, notification of planned changes, or anticipated noncompliance does not stay any Permit Condition.

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I.C.1.d For the purposes of notifications required by WAC 173-303-830(4)(a)(i)(B), -830(4)(b)(ii), -830(4)(c)(ii), and -830(4)(e)(ii)(C), the list shall consist of the mailing list the Permittees maintain under the HFFACO, and the Hanford email list Ecology maintains.

I.C.1.e The Permittees will provide notifications to Ecology required by WAC 173-303-830(4)(a)(i)(A) on a quarterly basis. Each quarterly notification will be submitted within 21 calendar days of the end of the quarter, and provide the required information for all such modifications put into effect during the reporting period. Quarterly reporting periods will be based upon the state Calendar Year.

I.C.1.f Changes to portions of a permitted engineering drawing or document that result in a change to the revision numbers, in accordance with WAC 173-303-830(4)(d)(ii)(A), will be transmitted to Ecology in the Quarterly Class 1 permit modification request letter and documented on a Class 1 Permit Modification Request form for Ecology's review and concurrence. This does not apply to the Waste Treatment and Immobilization Plant during the engineering design phase, construction phase, or for technical assistance.

I.C.2 Transfer of Permit

I.C.2.a In accordance with WAC 173-303-810(14)(c), this Permit is not transferrable to any person except after notice to Ecology.

I.C.2.b This Permit may be transferred to a new owner or operator only if it has been modified or revoked and reissued in accordance with WAC 173-303-830(2)(a) and (b) or WAC 173-303-830(3) to identify the new Permittee and incorporate such other requirements as may be necessary. A unit-specific portion may be transferred to a new operator as a Class [1]1 permit modification with prior approval from Ecology's Director. [WAC 173-303-290(2)]

I.C.2.c Before transferring ownership or operation of the Facility, the Permittees must notify the new owner or operator in writing of the requirements of this Permit and Chapter 173-303 WAC in accordance with WAC 173-303-290(2).

I.C.2.d In accordance with WAC 173-303-830(2), the Permittees must maintain financial assurance conforming to the requirements of WAC 173-303-620, as applicable, until Ecology notifies the Permittees that the new owner or operator has demonstrated compliance with the financial requirements.

I.C.3 Duty to Reapply and Permit Continuation

I.C.3.a If the Permittees wish to continue an activity regulated by the Permit after its expiration date, the Permittees must apply for and obtain a new permit. In addition, the Permittees must apply for and obtain a new permit if applicable corrective action, closure and/or post-closure care required by this Permit has not or will not be completed by the Permit's expiration date. Ecology review of any application for a permit reissuance will consider improvements in the state of control and measurement technology, as well as changes in applicable regulations. [WAC 173-303-806(6)]

I.C.3.a.i To continue an activity allowed by this Permit after the Permit's expiration date or to complete applicable corrective action, closure and/or post-closure care required by this Permit, the Permittees must submit to Ecology a new permit application at least 180 days before this Permit's expiration date, unless Ecology grants a later date provided that such date will never be later than the expiration date of the effective permit. [WAC 173-303-806(6)]

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I.C.3.a.ii In accordance with WAC 173-303-806(7), if the Permittees submit a timely, complete application and Ecology has not made a final permit determination as set forth in WAC 173-303-840, this Permit will remain in effect beyond the Permit's expiration date until Ecology does make a final permit determination (issuing or denying a new permit).

I.C.3.b If the Permittees fail to submit a timely, complete application as required under Permit Condition I.C.3.a, then those permit terms and conditions necessary to conduct and complete applicable corrective action, closure and/or post-closure care required by this Permit, will remain in effect beyond the Permit's expiration date until Ecology terminates the terms and/or conditions or this Permit is revoked and reissued. [WAC 173-303-815(2)(b)]

I.D Severability

I.D.1 Effect of Invalidation

The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances and the remainder of this Permit will not be affected thereby. Invalidation of any state statutory or regulatory provision which forms the basis for any Condition of this Permit does not affect the validity of any other state statutory or federal regulatory basis for said Condition.

I.D.2 Final Resolution

I.D.2.a In the event that a Condition of this Permit is stayed for any reason, until final resolution of the stayed Condition, the Permittees will continue to comply with the remainder of the Permit and with the requirements of either:

- The corresponding condition(s) in Permit Revision 9A; or
- If there is no such corresponding condition, then:
  - A corresponding alternative requirement and/or schedule of compliance in the HFFACO [WAC 173-303-840(8)(b)(iii)]; or failing that,
  - Any corresponding interim status standards in WAC 173-303-400;
- Unless compliance with the existing conditions would be technologically incompatible with compliance with other conditions of the new permit, which have not been stayed.

I.E Duties and Requirements

I.E.1 Duty to Comply

I.E.1.a The Permittees will comply with all Conditions of this Permit, except to the extent and strictly limited to the duration, such noncompliance is authorized by an emergency Permit issued under WAC 173-303-804. Other than as authorized by an emergency Permit, any permit noncompliance constitutes a violation of Chapter 173-303 WAC and/or Chapter 70A.300 RCW and is grounds for: a) enforcement action; b) termination of permit; c) revocation and reissuance of Permit; or e) denial of a permit renewal application. [WAC 173-303-810(2)]

I.E.2 Duty to Halt or Reduce Activity

I.E.2.a If any enforcement action is taken because of Permittees' noncompliance with this Permit, the necessity to halt or reduce the permitted activity to maintain compliance with the Conditions of this Permit is not a defense for the Permittees. [WAC 173-303-810(4)]

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I.E.3 Duty to Mitigate

I.E.3.a The Permittees must take all steps required by Ecology to minimize or correct any adverse impact to the environment resulting from noncompliance with this Permit. Any such mitigation efforts required by Ecology and performed by the Permittees shall not be deemed a defense to enforcement action taken for noncompliance with the Permit. [WAC 173-303-810(5)]

I.E.4 Proper Operation and Maintenance

I.E.4.a The Permittees will at all times properly operate and maintain all facilities and systems of treatment and control, which are installed or used by the Permittees, to achieve compliance with the Conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance (QA)/quality control (QC) procedures. This provision requires the operation of backup or auxiliary facilities, or similar systems only when necessary to achieve compliance with the Conditions of the Permit. [WAC 173-303-810(6)]

I.E.5 Duty to Provide Information

I.E.5.a The Permittees will furnish to Ecology, within a reasonable time, any information which Ecology requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or for determining compliance with this Permit. The Permittees will also furnish to Ecology, upon request, copies of records required to be kept by this Permit. Nothing in this Condition is intended to limit or diminish information access provisions contained within HFFACO. [WAC 173-303-810(9)]

I.E.6 Inspection and Entry

I.E.6.a Pursuant to WAC 173-303-810(10), the Permittees must allow Ecology, or authorized representatives, upon the presentation of Ecology credentials, to:

I.E.6.a.i Enter upon the Permittees' premises where a regulated facility or activity is located or conducted, or where records must be kept under the Conditions of this Permit [WAC 173-303-810(10)(a)];

I.E.6.a.ii Have access to, and copy, at reasonable times, any records that must be kept under the Conditions of this Permit; [WAC 173-303-810(10)(b)];

I.E.6.a.iii Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; [WAC 173-303-810(10)(c)]; and,

I.E.6.a.iv Sample or monitor, at reasonable times, for the purposes of assuring Permit compliance, or as otherwise authorized by Chapter 173-303 WAC any substances or parameters at any location. [WAC 173-303-810(10)(d)]

I.E.7 Reporting Planned Changes

I.E.7.a In accordance with WAC 173-303-810(14)(a), the Permittees must give notice to Ecology, as soon as possible, of any planned physical alterations, or additions to the permitted facility. Such physical alternations or additions must be in compliance with the permit. The Permittees must not treat, store, or dispose of dangerous waste in the new or physically changed portions of the facility until:

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I.E.7.a.i The Permit has been modified or the Permittees have obtained a temporary authorization under WAC 173-303-830(4)(e) for the physical change and for any change in the way waste is managed.

I.E.7.a.ii The Permittees have submitted to Ecology by certified mail or hand delivery or other means that establish proof of receipt (including applicable electronic means) a letter signed by the Permittees and a registered professional engineer stating the facility has been constructed or modified in compliance with the permit, and either;

I.E.7.a.iii Ecology has inspected the modified or newly constructed facility and finds it in compliance with the permit, or;

I.E.7.a.iv Within 15 days of the date of the submission of the certified letter as specified in Permit Condition I.E.7.a.ii, the Permittees have not received notice from Ecology of its intent to inspect.

I.E.8 Reporting Noncompliance with the Permit and Reporting Emergencies

I.E.8.a The Permittees must meet requirements for immediate reporting and written submissions in WAC 173-303-810(14)(f) for noncompliance which may endanger health or the environment.

I.E.8.b In accordance with WAC 173-303-810(14)(g), the Permittees must report instances of noncompliance not reported under WAC 173-303-810(14)(d), (e), and (f) (as specified in Permit Conditions I.E.8.a, I.E.10, and I.E.11.a) at the time the Annual Dangerous Waste Report is submitted (no later than March 1 of every year).

I.E.8.c The Permittees must give advance notice to Ecology as soon as possible of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements. Such changes require a permit modification pursuant to WAC 173-303-830 before they can be implemented. [WAC 173-303-810(14)(b)]

I.E.8.d The Permittees must meet requirements for reporting and written submissions in WAC 173-303-360(2)(k) in the event of spills, releases and other emergencies requiring implementation of the contingency plan.

I.E.9 Reporting Relevant Facts and Incorrect Information

I.E.9.a Pursuant to WAC 173-303-810(14)(h), if the Permittees become aware that they failed to submit any relevant facts in the permit application, or submitted incorrect information in the permit application, or in any report to Ecology, the Permittees must promptly submit the relevant and correct information.

I.E.10 Reporting Compliance Schedules

I.E.10.a Reports of permit compliance or noncompliance or any progress reports on interim and final permit requirements contained in any compliance schedules must be submitted no later than 14 days following each scheduled compliance date. [WAC 173-303-810(14)(e)]

I.E.11 Other Reporting

I.E.11.a Monitoring Reports: Monitoring results must be reported at intervals specified elsewhere in this Permit. [WAC 173-303-810(14)(d)]

I.E.11.b The following reports are required:

I.E.11.b.i Manifest discrepancy report as specified in WAC 173-303-370(4)(b) and WAC 173-303-370(5).

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I.E.11.b.ii Unmanifested waste report as specified in WAC 173-303-390(1).

I.E.11.b.iii Annual report as specified in WAC 173-303-390(2).

I.E.11.b.iv Additional reports as specified in WAC 173-303-390(3).

I.E.12 Information Repository

I.E.12.a The Permittees established an information repository pursuant to the Permit issued August 24, 1994, in compliance with [WAC 173-303-810(16), referencing WAC 173-303-281(6)(b)] both provisions incorporated by reference. The Permittees must continue to maintain the information repository. The information repository must meet the requirements in WAC 173-303-281(6)(c) through (f), incorporated by reference.

I.E.12.b The Permittees will continue to maintain the dangerous waste Part B Permit application and all modification requests in the TPA Administrative Record file. The TPA Administrative file is maintained electronically.

I.E.12.c The Permittees may not revise the document storage location specified in Permit Condition I.E.12.b without prior Ecology approval obtained through the modification process specified in WAC 173-303-830(4).

I.F Monitoring and Records

I.F.1 Samples and measurements taken for the purpose of monitoring must be representative of the monitored activity. [WAC 173-303-810(11)(b)]

I.F.2 As provided by WAC 173-303-810(11)(c), the Permittees must retain records of all monitoring information for a minimum of three years from the date of the sample, measurement, report or application. The record retention period may be extended at the request of Ecology at any time.

I.F.2.a The Permittees must maintain specific monitoring records for longer than three years when that is specified in other parts of this Permit. [WAC 173-303-810(11)(c)]

I.F.2.b The Permittees must maintain records from all groundwater monitoring wells and associated groundwater surface elevations for the active life and post-closure period of the facility. [WAC 173-303-810(11)(e)]

I.F.3 Pursuant to WAC 173-303-810(11)(d), records of monitoring information must include all of the following:

I.F.3.a The dates, exact place and time of sampling or measurements.

I.F.3.b The individual(s) who performed the sampling or measurements.

I.F.3.c The dates the analyses were performed.

I.F.3.d The individual(s) who performed the analyses.

I.F.3.e The analytical techniques or methods used; and,

I.F.3.f The results of such analyses.

I.F.4 In addition, the Permittees must meet specific monitoring and recordkeeping requirements when those are specified in other parts of this Permit. [WAC 173-303-810(11)(e)]

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I.G Signature and Certification Requirements

I.G.1 All applications, reports or information submitted to Ecology must be signed in accordance with WAC 173-303-810(12) and must be certified according to WAC 173-303-810(13) unless otherwise specified in Attachment 6, *Recordkeeping and Reports*.

I.G.2 Except as otherwise specified in this Permit, all applications, reports, notifications, or other submissions that are required by this Permit to be submitted to Ecology must be sent by certified mail or hand delivered to the following address or other address as specified by Ecology, or electronic submittal through an established communication pathway:

Program Manager
Nuclear Waste Program
Washington State Department of Ecology
3100 Port of Benton Boulevard
Richland, Washington 99354
Telephone: 509-372-7950

A change in this address does not require a permit modification under WAC 173-303-830.

I.H Confidential Information

I.H.1 Information submitted by the Permittees to Ecology identified as confidential by the Permittees will be treated in accordance with applicable provisions of WAC 173-303-810(15), RCW 42.56 and RCW 43.21A.160.

I.I Waste Minimization

I.I.1 In accordance with WAC 173-303-380(1)(q), the Co-operator(s) must place a certification in the operating record on an annual basis that:

I.I.1.a A program is in place to reduce the volume and toxicity of hazardous waste generated to the degree determined by the Permittees to be economically practicable.

I.I.1.b Proposed methods of treatment, storage or disposal are those practicable methods currently available to the Permittees which minimize the present and future threat to human health and the environment.

I.I.2 The Permittees must report waste minimization efforts in their annual report as required by Permit Condition I.E.11.b.

I.J Performance Standards

I.J.1 The Permittees shall design, construct, operate and maintain the facility to the maximum extent practicable given the limits of technology in a manner to ensure performance standards in WAC 173-303-283 are met.

I.K Documents and Records to be Maintained at Facility Site

I.K.1 The following documents must be maintained at the Facility until closure of the Facility and completion of any required post-closure care and corrective action in the Administrative Record at https://pdw.hanford.gov/.

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I.K.1.a This Permit, including all of its attachments and addendums and all amendments, revisions, and modifications to these documents. The Permit may be kept electronically provided that the Permittees ensure and maintain a current and accurate version of the Permit that is accessible to staff. (Note: The official version of the Permit is maintained by Ecology.)

I.K.1.b Records required by this Permit (commonly called the operating record). [WAC 173-303-380(1)] The operating record is known as the Hanford Facility Operating Record. [Permit Condition II.I.2]

I.K.1.c Other permits and approvals that authorize actions which affect safety and environmental protection (including, but not limited to, Air Quality Program registrations, Toxic Substance Control Act [TSCA] approvals, State Environmental Policy Act [SEPA] decision documents).

I.K.2 The documents and records specified in Permit Condition I.K.1 may be maintained in electronic format [WAC 173-303-380(1)].

I.K.3 From the effective date of this Permit, the Permittees may maintain documents in the Hanford Facility Operating Record at an off-site location. Document maintenance in an off-site location does not include documents for current personnel or waste that is currently treated, stored, or disposed at the Facility. The Permittees must produce such documents within a reasonable time, following a request for such documents. For purposes of this Permit Condition, “reasonable time” is 15 days or a longer time when agreed to by Ecology. [WAC 173-303-810(9)]

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PART II GENERAL FACILITY CONDITIONS

II.A Facility Contingency Plan

II.A.1 The Permittees will comply with enforceable sections of Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02). Enforceable sections of Permit Attachment 4 are identified in Appendix A. The Permittees will also comply with applicable unit/unit-group specific Building Emergency Plan (BEP)/Facility Response Plan (FRP) requirements in Parts III and V. Enforceable sections of unit/unit-group specific BEPs/FRPs are identified in Attachment B, included in each BEP/FRP. Part V and VI unit/unit groups will have a BEP/FRP or will incorporate required provisions of WAC 173-303 into the Closure or Post-Closure Plan. [WAC 173-303-360(2) and WAC 173-303-350]

II.A.2 A hard copy of Permit Attachment 4 and the current version of unit-specific BEP/FRP will be physically located and maintained at each Dangerous Waste Management Unit group specified in Attachment 4A, BEP/FRP Location column. [WAC 173-303-350]

II.A.3 The Permittees will review and immediately amend, when necessary, Permit Attachment 4, *Hanford Emergency Management Plan*, and applicable unit/unit-group specific Addenda F, (Preparedness and Prevention) and Addenda J (Contingency Plan) in Parts III, V, and VI according to the requirements of WAC 173-303-350(5)(a) – (e), incorporated by reference. Amendments will be made in accordance with the permit modification provisions of Permit Condition I.C.1. [WAC 173-303-350(5)]

II.A.4 The Permittees will comply with the requirements of WAC 173-303-350(3)(d) and -360, incorporated by reference, concerning the emergency coordinator. At Hanford the role of Emergency Coordinator is filled by a Building Emergency Director (BED) or Building Warden (BW). The Permittee maintains a current listing of names and home telephone numbers of BEDs/BWs. Additionally, a master list of the qualified BEDs/BWs is maintained in Attachment 4A. The Attachment 4A TSD unit BED/BW master list will be modified in accordance with Permit Condition I.C.1. When Attachment 4A is revised, if applicable, individual unit/unit-group specific BEPs/FRPs will also be modified in accordance with Permit Condition I.C.1.

II.A.4.a When changes are made to nonenforcable portions of Permit Attachment 4, unit-specific contingency documentation, and/or Attachment 4A, the changes are not required to be documented through a dangerous waste permit modification under WAC 173-303-830 or Permit Condition I.C.1. The Permittee shall provide a copy of the amended documentation to Ecology through a formal letter.

II.A.4.b The on-call BED/BW for each unit/unit group will be identified on the weekly on-call list on file with the single point of contact, Patrol Operations Center, at telephone number (509) 373-0911 or for PNNL units, (509) 375-2400.

II.A.5 BEDs must use the criteria detailed in Section 4.2 of Attachment 4, *Hanford Emergency Management Plan*, to implement their contingency plan and perform their proper notifications.

II.A.6 Permittees must provide emergency response procedures described in Attachment 4, *Hanford Emergency Management Plan*, or unit/unit-group specific BEP/FRP upon request.

II.A.7 The Permittees will comply with contingency planning requirements using a “One Plan” contingency plan in accordance with WAC 173-303-350(2) and WAC 173-303-201(9)(a).

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II.B Preparedness and Prevention

II.B.1 The Permittees will equip the Facility with the equipment specified in Permit Attachment 4, *Hanford Emergency Management Plan* (DOE/RL-94-02), Appendix C, and the corresponding unit-specific preparedness and prevention provisions in Parts III, V, and VI. [WAC 173-303-340(1)]

II.B.2 The Permittees will test and maintain the equipment specified in Permit Condition II.B.1 as necessary to assure proper operation in the event of emergency.

II.B.3 The Permittees will maintain access to communications or alarms pursuant to WAC 173-303-340(2), as provided in Permit Attachment 4, *Hanford Emergency Management Plan*, Table 5-1, and unit-specific BEPs/FRPs.

II.B.4 The Permittees will comply with WAC 173-303-340(4) and WAC 173-303-355(1) pertaining to arrangements with local authorities.

II.B.5 Based on the arrangements with local authorities required by WAC 173-303-340(4) documented in Permit Attachment 4, *Hanford Emergency Management Plan*, Table 3-1, the Permittees will maintain the Memoranda of Understanding to comply with WAC 173-303-350(4)(b). The Hanford Facility Memoranda of Understanding with local authorities provides emergency planning and coordination equivalent to submittal of the contingency plan to local authorities.

II.C Personnel Training

II.C.1 The Permittees will administer, maintain, and conduct the facility personnel training program in accordance with WAC 173-303-330(1), Permit Attachment 5, *Hanford Facility Personnel Training Program*; Permit Attachment 8, *Inspection and Training Plan for Groundwater Monitoring Wells*; and, the training requirements identified in Parts III, V and VI.

II.C.2 Documentation of information required by WAC 173-303-330(2)(a), (b), and (c), and other personnel training record requirements in Permit Condition II.C.4 will be placed into the Hanford Facility Operating Record. [WAC 173-303-330(2)]

II.C.3 Changes to Permit Attachment 5, *Hanford Facility Personnel Training Program*; Attachment 8, *Inspection and Training Plan for Groundwater Monitoring Wells*; and the training requirements identified in Parts III, V, and VI, must be made according to Permit Condition I.C.1.b for those elements required by WAC 173-303-330(2)(b).

II.C.4 The Permittees must maintain personnel training records as follows: [WAC 173-303-330(3)]

II.C.4.a The Permittees must maintain records documenting that Facility personnel have received and completed the training required in the Parts III, V, and VI, Permit Attachment 5, *Hanford Facility Personnel Training Program* and Attachment 8, *Inspection and Training Plan for Groundwater Monitoring Wells*.

II.C.4.b The Permittees must place personnel training records in the Hanford Facility Operating Record, required by Permit Condition II.I.2. Training records may be provided to Ecology in electronic or paper format upon request or via direct access, as agreed to by the Permittees and Ecology pursuant to the HFFACO.

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II.C.4.c The Permittees must keep training records on current personnel until closure of the Facility, as described in Permit Condition II.J.4. Training records on former employees must be kept for at least three years from the date the employee last worked at the Facility. Closure of the Facility includes completion of any post-closure care or corrective action required by this Permit. [WAC 173-303-330(3)]

II.C.4.d Training records may accompany personnel transferred within the Hanford Facility. [WAC 173-303-330(3)]

II.C.4.e The Permittees will provide the necessary training to non-Facility personnel (i.e., visitors, subcontractors), as appropriate, for the locations of such personnel, and the activities that will be undertaken. At a minimum, this training will describe dangerous waste management hazards at the Facility.

II.D Waste Analysis

II.D.1 The Permittees will confirm their knowledge about a dangerous waste before treating, storing, or disposing of a dangerous waste in accordance with WAC 173-303-300.

II.D.2 The Permittees will satisfy the requirements of Permit Condition II.D.1 through compliance with the requirements of the unit-specific Waste Analysis Plan requirements. [WAC 173-303-300(5)]

II.D.2.a Where Ecology accepts work conducted under HFFACO in satisfaction of corrective action requirements of the Permit pursuant to Permit Condition II.Y.2, Permittees will conduct waste and environmental media sampling and analysis in accordance with the associated HFFACO documentation. If work conducted under the HFFACO is not accepted by Ecology, per Permit Condition II.Y.2.a.iii, the Permittees will ensure that any permit modification request provided to Ecology pursuant to Permit Condition II.Y.2.a.iii will include sufficient information according to WAC 173-303-64620(4) including written plans for any monitoring, sampling or analysis required as part of the proposed corrective action. These written plans will include such QA/QC requirements as necessary to ensure that the resulting data will be of appropriate quantity and quality for their intended decision-making processes. All monitoring, sampling and analysis, and QA/QC requirements will be established on the basis of a systematic planning process such as the EPA 7 Step Data Quality Objectives (DQO) process as defined in *Guidance for the Data Quality Objectives Process* (EPA/600/R-96/055), EPA-QA/G-4, dated February 2006, as revised.

II.D.3 Any permit modification to this Permit to include sampling and analysis requirements will include a quality assurance project plan to ensure that data obtained are of adequate quantity and quality for their intended decision-making purposes.

II.D.3.a The level of QA/QC for the collection, preservation, transportation, and analysis of each sample required for implementation of this Permit must be based upon a systematic planning process such as the EPA 7 Step DQO process as defined in *Guidance for the Data Quality Objectives Process* (EPA/600/R-96/055), EPA QA/G-4, February 2006, as revised.

II.D.3.b Quality Assurance Project Plans will be developed in accordance with the following EPA documents, as appropriate. *EPA Requirements for Quality Assurance Project Plans* (EPA/240/B-01/003) (EPA-QA/R-5), March 2001 as revised, and Test Methods for Evaluating Solid Waste, Physical/Chemical Methods Compendium (EPA/SW-846 as amended).

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Guidance on preparing Quality Assurance Project Plans can be found in Ecology's *Guidelines for Preparing Quality Assurance Project Plans for Environmental Studies*, July 2004, Ecology Publication No. 04-03-030 or *Guidance for Quality Assurance Project Plans* (EPA/240/R-02/009) QA/G-5, December 2002 as revised.

II.D.3.c Documentation of any applicable analytical laboratory QA/QC specification/audit processes will be available upon request and maintained in the Hanford Facility Operating Record.

II.E Cleanup of Released Material

II.E.1 The Permittees will comply with the requirements of WAC 173-303-145, incorporated by reference, including notification, mitigation, and control measures specified in WAC 173-303-145(2), and (3), when any dangerous waste (including mixed waste) or hazardous substance is intentionally or accidently spilled or discharged into the environment (unless otherwise permitted) such that human health or the environment is threatened, regardless of the quantity of the spill or release.

II.E.1.a Notifications to Ecology will be provided to the Central Regional Office at: 509-575-2490.

II.F Groundwater and Vadose Zone Monitoring and Corrective Action for Regulated Units

II.F.1 The Permittees will comply with the groundwater monitoring and corrective action for regulated units in accordance with the requirements established in unit-specific chapters of this Permit. [WAC 173-303-645]

II.F.2 Use of Alternative Requirements for Groundwater Monitoring and Corrective Action of Regulated Units:

II.F.2.a The Permittees may submit a permit modification request to satisfy groundwater monitoring and corrective action requirements for regulated units based on alternative requirements developed and approved under the HFFACO. [WAC 173-303-645(1)(e)]

II.F.2.b Any permit modification request to establish alternative groundwater monitoring and corrective action requirements for regulated units as provided in Permit Condition II.F.2.a must include information supporting the following demonstrations:

- A dangerous waste unit is situated among other solid waste management units or areas of concern, a release has occurred and both the dangerous waste unit and one or more of the SWMUs or AOC are likely to have contributed to the release; and
- It is not necessary to apply the requirements of WAC 173-303-645(2) through (12) to satisfy designated groundwater protection and monitoring requirements for a particular unit because the alternative requirements will protect human health and the environment.

II.F.2.c The following Conditions apply where a unit-specific chapter of this Permit specifies alternative requirements for groundwater monitoring and corrective action for a regulated unit.

II.F.2.c.i Ecology reserves the authority to at any time determine that alternative groundwater monitoring and corrective action requirements incorporated into a unit-specific chapter are no longer protective of human health and the environment as required under WAC 173-303-645(1)(e).

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II.F.2.c.ii In the event that, pursuant to Permit condition II.F.2.c.i, Ecology determines that alternative groundwater monitoring and corrective action requirements incorporated into a unit-specific chapter are no longer protective, Ecology will impose, in accordance with the permit modification procedures of WAC 173-303-830, a requirement for the Permittees to conduct groundwater monitoring and corrective action for the regulated unit in accordance with WAC 173-303-645(2)-(12), or impose such other alternative requirements as Ecology deems appropriate. The Permittees may challenge Ecology's authority to impose such groundwater monitoring and corrective action requirements through a timely appeal of such permit modification. Any such appeal shall be without argument from Ecology that the Permittees' right to raise such challenge has been waived by a failure to fully litigate an issue through an appeal taken within thirty days of issuance of this Permit, and without argument from the Permittees that such requirement(s) fails to satisfy a cause for permit modification under WAC 173-303-830(3)(a).

II.F.3 Inspection and Training Requirements

Inspection and training requirements for groundwater monitoring wells are discussed in Permit Attachment 8, *Inspection and Training Plan for Groundwater Monitoring Wells.* Individual unit groups with groundwater monitoring plans and activities must comply with these requirements.

II.F.4 Purgewater Management

Purgewater will be handled in accordance with the requirements set forth in Permit Attachment 10, *Strategy for Handling and Disposing of Purgewater at the Hanford Site*.

II.F.5 Well Inspection and Maintenance

II.F.5.a The Permittees will evaluate resource protection wells subject to this Permit according to the Permit Attachment 8, *Inspection and Training Plan for Groundwater Monitoring Wells*. The Permittees will submit a permit modification request to Ecology to decommission or maintain wells as necessary to ensure compliance with WAC 173-303-645(8)(c). This permit modification request will include a schedule of compliance, which may incorporate by reference applicable schedule(s) in HFFACO Milestone M-24. For wells to be decommissioned, this permit modification must also include a request for installation of replacement wells, if necessary, to ensure compliance with WAC 173-303-645 requirements.

II.F.5.b Ecology will receive a notice of intent (NOI) in writing at least seventy-two (72) hours before the Permittees decommission (excluding maintenance activities) any well subject to this Permit.

II.F.6 Well Construction

All wells constructed pursuant to this Permit will be constructed in compliance with Chapter 173-160 WAC.

II.F.7 Changes to Groundwater Flow Regime

Provide Ecology informal notification within 90 days of determining that a significant change in the flow regime at a given operating or closure unit has occurred to the extent that the groundwater monitoring plan incorporating the network no longer satisfies the requirements of WAC 173-303-645(8), WAC 173-303-645(9) or WAC 173-303-645(10), as applicable. Informal notification is an email or a telephone call that is later documented via email.

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II.G Notice of Intent and Siting Criteria

II.G.1 The Permittees must comply with the NOI requirements of WAC 173-303-281 for any permit modification requests that seeks changes to the Facility and that meets the definition of "significant expansion" as defined in WAC 173-303-281(3).

II.G.2 The Permittees must comply with the siting criteria requirements of WAC 173-303-282 for any permit modification requests that seek changes to the Facility and that meets the definition of "significant expansion" as defined in WAC 173-303-282(3).

II.H Financial Assurance

II.H.1 The provisions of WAC 173-303-620 are not applicable to USDOE as the owner and operator of the Hanford Facility. The obligations under WAC 173-303-620(3) and (5) of non-federal government Permittees to provide cost estimates for facility closure and post-closure monitoring and maintenance will be deemed satisfied upon USDOE's compliance with the HFFACO requirement (as currently contained in the M-36 Milestone series) to produce an annual scope, schedule and cost report.

II.I Facility Recordkeeping

II.I.1 The Permittees will comply with the applicable requirements of WAC 173-303-380(1), incorporated by reference, in addition to unit-specific recordkeeping and reporting requirements specified in Parts III, IV, V and VI to maintain the Hanford Facility Operating Record pursuant to WAC 173-303-380.

II.I.2 The Hanford Facility Operating Record will include permit information that corresponds to chapters of Parts III, IV, V, and VI. Except as specifically provided otherwise in this Permit, the Permittees will record in the Hanford Facility Operating Record, all information required by the Permit within seven working days after the information becomes available. Information in the Hanford Facility Operating Record may be maintained on paper or electronic format, or both. [WAC 173-303-380(3) and -830(4)]

II.I.2.a The Permittees will make available to Ecology, upon request or via direct access, as agreed to between the Permittees and Ecology pursuant to the HFFACO, and contents of the Hanford Facility Operating Record in accordance with WAC 173-303-380(3)(a), incorporated by reference.

II.I.2.b The Permittees will place records and reports required by Part I and II Conditions as shown in Attachment 6, *Recordkeeping and Reports*, incorporated by reference in the Hanford Facility Operating Record. All other records and reports required by unit-specific conditions will be placed in the Hanford Facility Operating Record unless otherwise required.

II.I.3 The Permittees will include in the Hanford Facility Operating Record all information from the Hanford Facility Operating Record maintained pursuant to the Permit issued August 24, 1994. [WAC 173-303-281(6)(c)].

II.I.4 The Permittees will maintain a list identifying all active or temporarily inactive central accumulation areas and satellite accumulation areas and their locations. This list will identify the location, the predominant waste types managed at the area, and a date identifying when the list was compiled. This information will be provided by the Permittees upon request by Ecology.

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II.I.5 The Hanford Facility Operating Record will include an identification of the system(s) currently utilized to generate Occurrence Reports. The identification of the system(s) is required to include a description, an identification of an on-site location of hard-copy Occurrence Reports, an identification of on-site access to the system's data, and an on-site contact name and telephone number.

II.J Closure and Post-Closure

II.J.1 The Permittees must close all dangerous waste management units at the Facility and conduct post-closure activities as applicable and as specified in Parts III, V, and/or VI of this Permit. [WAC 173-303-610]

II.J.2 For purposes of the closure and post-closure requirements, any dangerous waste management unit which closes is subject to the applicable closure and post-closure standards of WAC 173-303-610 even if the rest of the Facility does not close and continues to operate.

II.J.3 The Permittees will submit a written notification of, or request for, a permit modification to authorize a change in operating plans, facility design, or the approved closure plan, in accordance with the provisions of WAC 173-303-610(3)(b), incorporated by reference.

II.J.4 The Permittees must provide prior written notice to Ecology of the date they expect to begin closure of any dangerous waste management unit subject to the requirements of this Permit according to the requirements of WAC 173-303-610(3)(c), incorporated by reference.

II.J.5 The Permittees must submit a written notification of, or request for, a permit modification to authorize a change in operating plans, facility design, or the approved post-closure plan, in accordance with the requirements of WAC 173-303-610(8)(d), incorporated by reference.

II.J.6 Use of Alternative Requirements for Closure and Post-Closure

II.J.6.a Except for closure performance standards specified in WAC 173-303-610(2)(a), the Permittees may submit a permit modification request to replace all or part of the requirements of WAC 173-303-610 and the unit-specific requirements referenced in WAC 173-303-610(2)(b) with alternative requirements for a dangerous waste management unit. [WAC 173-303-610(1)(e)]

II.J.6.b Any permit modification request to establish alternative requirements as provided in Permit Condition II.J.6.a must include information supporting the following demonstrations:

- A dangerous waste management unit is situated among other solid waste management units or areas of concern, a release has occurred, and both the dangerous waste management unit and one or more of the SWMU or AOC are likely to have contributed to the release; and,
- It is not necessary to apply the requirements of WAC 173-303-610 [or the unit-specific requirements referenced in WAC 173-303-610(2)(b)] because the alternative requirements will protect human health and the environment.

II.J.7 Completion of closure activities must be documented using certifications as required in unit-specific Closure Plans.

II.J.8 Completion of post-closure activities will be documented using certifications of completion as required in unit-specific Post-Closure Plans.

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II.K Reserved

II.L Security

II.L.1 The Permittees will maintain and operate the general security measures documented in Permit Attachment 3, *Security*. The Permittees will also comply with applicable unit/unit group specific security requirements in Parts III, V, and VI. [WAC 173-303-310]

II.M Receipt of Dangerous Wastes Generated Offsite

II.M.1 The Permittees will comply with the requirements of WAC 173-303-290(1), incorporated by reference, for any dangerous waste received from sources outside the United States, and the requirements of WAC 173-303-290(3), incorporated by reference, for any dangerous waste received from off-site generators.

II.N Manifest System

II.N.1 The Permittees will comply with the manifest requirements of WAC 173-303-370, incorporated by reference, for dangerous or mixed waste (including environmental media or debris containing listed dangerous wastes, or exhibiting dangerous characteristics) received from off-site.

II.N.2 The Permittees will comply with requirements of WAC 173-303-180, and WAC 173-303-190, incorporated by reference, for off-site shipments of dangerous and/or mixed waste from a dangerous waste management unit authorized by this Permit. [WAC 173-303-280(1)]

II.N.3 The Permittees must use the manifest system or an alternate tracking system for waste that is otherwise exempt from the manifest system requirements pursuant to WAC 173-303-180(5). This requirement applies to transport on roadways that are public or private right-of-way within or along the border of contiguous property where the movement is under control of the Permittees. The alternative tracking system can be a paper system or an electronic system. The alternative tracking system will consist of documentation between the Permittee with operating responsibility for the originating Hanford Facility location (as documented in Permit Attachment 8, *Inspection and Training Plan for Groundwater Monitoring Wells*) containing the following information, unless other unit-specific provisions are designated in Part III or V of this Permit: [WAC 173-303-815(2)(a)]

II.N.3.a Originating location's contact name, location, and telephone number.

II.N.3.b Receiving location's contact name, location, and telephone number.

II.N.3.c Description of waste.

II.N.3.d Number and type of containers (including tank truck or tank trailers for liquid waste shipments).

II.N.3.e Total quantity of waste.

II.N.3.f Unit volume/weight.

II.N.3.g Dangerous waste number(s) or U.S. Department of Transportation hazard class.

II.N.3.h Special handling instructions including emergency contacts.

II.N.3.i Waste transported by pipeline within the Facility boundary is exempt from Permit Condition II.N.3.

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II.N.3.j For purposes of Permit Condition II.N.3, the receiving location must be a dangerous waste management unit authorized by this Permit to accept and manage the type(s) of dangerous and/or mixed wastes in the shipment, or, for recyclable dangerous waste, to an on-site location for consolidation.

II.N.4 Representatives of the originating and receiving location will resolve any discrepancies of information found related to Permit Condition II.N.3. [WAC 173-303-815(2)(a)]

II.N.4.a If the discrepancies cannot be resolved at the receiving location, a new Hanford Facility receiving dangerous waste management unit location will be agreed upon, or the waste shipment will be returned to the originating location. The documentation accompanying the movement of such a waste shipment will be updated to reflect the new receiving location.

II.N.5 The Permittees will maintain copies of waste transportation documentation required in Permit Condition II.N in the Hanford Facility Operating Record of the receiving location. [WAC 173-303-370, WAC 173-303-815(2)(a)]

II.O Land Disposal Restrictions

II.O.1 The Permittees will comply with all Land Disposal Restrictions (LDR) requirements as set forth in WAC 173-303-140, incorporated by reference, and approved treatability variance requests pursuant to 40 CFR 268.44(h), or approved determination of equivalent treatment requests pursuant to 40 CFR 268.42(b).

II.P Access to Property Not Owned/Controlled by Permittees

II.P.1 To the extent that work required by this Permit to mitigate spills or to conduct corrective actions for releases from the Facility must be done on property not owned or controlled by the Permittees, the Permittees will make all reasonable attempts to obtain access at these locations. [WAC 173-303-145(3), WAC 173-303-64620(2), WAC 173-303-645(11)(e)]

II.Q Other Laws, Regulations, Permits or Approvals

II.Q.1 The Permittees will comply with the requirements of WAC 173-303-395(2), incorporated by reference. Nothing in this Permit relieves the Permittees of any obligation to obtain or comply with all other applicable federal, state, and local permits applicable to work required by this Permit.

II.R Reserved

II.S Reserved

II.T Reserved

II.U Underground Piping

II.U.1 The Permittees will provide written notification, within 30 days of discovery, to Ecology if any previously unknown dangerous waste pipelines are discovered. If after evaluation of the dangerous waste pipeline information, Ecology determines the pipeline is subject to regulation under Chapter 173-303 WAC, the Permittees must submit a permit modification to incorporate the dangerous waste pipeline into the Permit.

II.U.2 The Permittees must maintain piping maps for all dangerous waste underground pipelines (including active, inactive, and abandoned pipelines), which contain or contained dangerous waste subject to the provisions of Chapter 173-303 WAC at the Hanford Facility pursuant to the authority of WAC 173-303-380(1)(b).

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II.V Marking of Underground Piping

II.V.1 Pursuant to the authority of WAC 173-303-380(1)(b), -640, -680, the Permittees will mark and maintain existing marking of underground pipelines subject to this Permit. Examples of allowable markers are provided in DOE/RL 96-50, *Hanford Facility RCRA Permit Condition II.U.1 Report for Mapping and Marking of Dangerous Waste Underground Pipelines*. These pipelines will be marked at the point they pass beneath an area fence, at their origin and destination, at any point they cross an improved road, and every 100 meters along the pipeline corridor where practicable. The markers will be labeled with a sign that reads "Buried Dangerous Waste Pipe" and will be visible from a distance of 15 meters.

II.W Reserved

II.X Inspections

II.X.1 Written Schedule

The Permittees will follow a written schedule for inspecting all monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment that help prevent, detect, or respond to hazards to the public, health or the environment. [WAC 173-303-320(2)] The written schedule shall include:

II.X.1.a The unit group/unit-specific area inspection requirements identified pursuant to Permit Conditions in Parts III, V, or VI of this Permit.

II.X.1.b The Hanford Facility emergency notification system for the 100, 200, 300, and 400 Areas, unless otherwise included in Permit Conditions in Parts III, V, or VI of this Permit.

II.X.1.c An annual inspection of:

II.X.1.d The 100, 200 East, 200 West, 300, 400, and 600 Areas exclusive of activities subject to CERCLA.

II.X.1.d.i The banks of the Columbia River, contained within the Facility boundary. This inspection will be performed from the river by boat.

II.X.1.e The Permittees will visually inspect the areas identified in Permit Condition II.X.1.c for malfunctions, deterioration, operator errors, and discharges, which may cause or lead to the release of dangerous waste constituents to the environment, or threaten human health. Specific items to be noted are as follows:

II.X.1.e.i Remains of waste containers, labels, or other waste management equipment.

II.X.1.e.ii Solid waste disposal sites not previously identified for remedial action.

II.X.1.e.iii Uncontrolled waste containers (e.g., orphan drums).

II.X.1.e.iv Temporary or permanent activities that could generate an uncontrolled waste form.

II.X.1.e.v Unpermitted waste discharges.

II.X.1.f The Permittees will notify Ecology at least seven days prior to conducting these inspections required by Permit Condition II.X.1.c in order to allow representatives of Ecology to be present during the inspections. [WAC 173-303-815(2)(b)(ii)]

II.X.1.g The inspection schedule must be kept at the Facility. [WAC 173-303-320(2)(a)]

II.X.1.h The inspection schedule must identify the types of problems which are to be looked for during inspections. [WAC 173-303-320(2)(b)]

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II.X.1.i The inspection schedule will indicate the frequency of inspection for specific items. The frequency should be based on the rate of possible deterioration of equipment, and the probability of an environmental or human health incident. Areas subject to spills must be inspected daily when in use. [WAC 173-303-320(2)(c)]

II.X.2 Inspection Log

The Permittees will keep an inspection log or summary of inspections conducted pursuant to the written inspection schedule required by Permit Condition II.X.1. The inspection log or summary of inspections must contain:

II.X.2.a Date and time of the inspection.

II.X.2.b Printed name and the handwritten signature of the inspector.

II.X.2.c Notation of the observations made.

II.X.2.d Date and nature of any repairs or remedial actions taken.

II.X.2.e An account of spills or discharges in accordance with Permit Condition II.E.

II.X.3 Inspection Records

II.X.3.a The Permittees will place a copy of the inspection schedule required by Permit Condition II.X.1 in the Hanford Facility Operating Record required by Permit Condition II.I.2.

II.X.3.b The Permittees will place the inspection log or summary required by Permit Condition II.X.2 in the Hanford Facility Operating Record and retain it for at least five years from the date of the inspection. [WAC 173-303-320(2)(d), WAC 173-303-380(1)(e)]

II.X.4 Remedy of Problems

The Permittees will remedy any problems revealed by the inspections required by Permit Condition II.X.1 on a schedule which prevents hazards to the public health and environment. Where a hazard is imminent or has already occurred, remedial action must be taken immediately. [WAC 173-303-320(3)]

II.Y Corrective Action

In accordance with WAC 173-303-64620 and WAC 173-303-815(2)(b)(ii), the Permittees must conduct corrective action, as necessary to protect human health and the environment, for releases of dangerous waste and dangerous constituents from SWMUs and AOCs at the Facility, including releases that have migrated beyond the Facility boundary. The Permittees may be required to implement measures within the Facility to address releases, which have migrated beyond the Facility's boundary. As specified in Permit Conditions II.Y.1.g, II.Y.2.a.iii, and II.Y.2.a.ii, the Permittee's right to challenge Ecology's authority to impose corrective action with respect to radionuclides, CPP units (as identified under Permit Condition II.Y.2.a) and selected SWMUs not covered by the HFFACO at property currently subleased to US Ecology, Inc. (as identified under Permit Condition II.Y.3.a.i), is reserved until such time as Ecology chooses to impose corrective action in accordance with the permit modification procedures of WAC 173-303-830.

II.Y.1 Compliance with Chapter 173-340 WAC

In accordance with WAC 173-303-64620, the Permittees must conduct corrective action "as necessary to protect human health and the environment." To ensure that corrective action will be conducted as necessary to protect human health and the environment, except as provided in Permit Condition II.Y.2, the Permittees must conduct corrective action in a manner consistent with the following provisions of Chapter 173-340 WAC:

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II.Y.1.a As necessary to select a cleanup action in accordance with WAC 173-340-360, WAC 173-340-350, *Remedial investigation* and WAC 173-340-351 *Feasibility study*.

II.Y.1.b WAC 173-340-360, *Cleanup action requirements*.

II.Y.1.c WAC 173-340-400, *Cleanup action implementation*.

II.Y.1.d WAC 173-340-410, *Compliance monitoring.*

II.Y.1.e WAC 173-340-420, *Periodic review*.

II.Y.1.f WAC 173-340-440, *Institutional controls*.

II.Y.1.g WAC 173-340-700 through -760 *Part VII – Cleanup Standards*, except that to the extent that Ecology seeks to impose corrective action with respect to radionuclides regulated under the provisions of the Atomic Energy Act, as amended, 42 U.S.C. § 2011 et seq. (AEA), the Permittees may challenge Ecology's authority to impose such corrective action through a timely appeal of the permit modification issued by Ecology without argument from Ecology that such right has been waived by a failure to fully litigate that issue through an appeal taken within thirty (30) days of the issuance of this Permit, and without argument from the Permittees that such requirement fails to satisfy a cause for permit modification under WAC 173-303-830(3)(a).

II.Y.2 Acceptance of Work Under Other Authorities or Programs and Integration with the HFFACO

Corrective action is necessary to protect human health and the environment for all past practice units identified in Appendix C of the HFFACO. Notwithstanding Permit Condition II.Y.1, work under other cleanup authorities or programs, including work under the HFFACO, may be used to satisfy corrective action requirements, provided it protects human health and the environment.

II.Y.2.a For past practice units identified in Appendix C of the HFFACO, as amended, as CPP Units, Ecology accepts work under the HFFACO, as amended, and under the CERCLA program, as satisfying corrective action requirements to the extent provided for in, and subject to the reservations and requirements of, Permit Conditions II.Y.2.a.i through II.Y.2.a.iv.

II.Y.2.a.i For any past practice unit identified in Appendix C of the HFFACO as a CPP unit, the Permittees must comply with the requirements and schedules related to investigation and cleanup of the CPP unit(s) developed and approved under the HFFACO, as amended, as incorporated in Part IV of this Permit.

II.Y.2.a.ii For any past practice unit identified in Appendix C of the HFFACO as a CPP unit, in the case of an interim Record of Decision (ROD), a final decision about satisfaction of corrective action requirements will be made in the context of issuance of a final ROD.

II.Y.2.a.iii If EPA and Ecology, after exhausting the dispute resolution process under Section XXVI of the HFFACO, cannot agree on requirements related to investigation or cleanup of CPP unit(s), Ecology will notify the Permittees, in writing, of the disagreement and impose, in accordance with the permit modification procedures of WAC 173-303-830, a requirement for the Permittees to conduct corrective action for the subject units(s) in accordance with Permit Condition II.Y.1. The Permittees may challenge Ecology's authority to impose such corrective action requirements through a timely appeal of such permit modification, without argument from Ecology that the Permittees' right to raise such challenge has been waived by a failure to fully litigate that issue through an appeal taken within thirty (30) days of the issuance of this Permit, and without argument from

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the Permittee that such requirement fails to satisfy a cause for permit modification under WAC 173-303-830(3)(a). Within 60 days of receipt of the above permit modification, or within some other reasonable period of time agreed to by Ecology and the Permittees, the Permittees must submit for Ecology review and approval, a plan to conduct corrective action in accordance with Permit Condition II.Y.1 for the subject unit(s). The Permittee's plan may include a request that Ecology evaluate work under another authority or program. Approved corrective action plans under this Permit Condition will be incorporated into this Permit in accordance with the Permit Modification Procedures of WAC 173-303-830.

II.Y.2.a.iv The Permittees must maintain information on corrective action for CPP units covered by the HFFACO in accordance with Sections 9.0 and 10.0 of the HFFACO Action Plan. In addition, the Permittees must maintain all reports and other information developed in whole, or in part, to implement the requirements of Permit Condition II.Y.2.a, including reports of investigations and all raw data, in the Hanford Facility Operating Record in accordance with Permit Condition II.I. Information that is maintained in the Hanford Site Administrative Record may be incorporated by reference into the Hanford Facility Operating Record.

II.Y.2.b For past practice units identified in Appendix C of the HFFACO, as amended, as R-CPP units, Ecology accepts work under the HFFACO, as amended, as satisfying corrective action requirements to the extent provided for, and subject to the reservations and requirements of, Permit Conditions II.Y.2.b.i through II.Y.2.b.ii.

II.Y.2.b.i For any past practice unit identified in Appendix C of the HFFACO, as amended, as an R-CPP unit, the Permittees must comply with the requirements and schedules related to investigation and cleanup of R-CPP units developed and approved under the HFFACO, as amended, as incorporated in Part IV of this Permit.

II.Y.2.b.ii The Permittees must maintain information on corrective action for R-CPP units covered by the HFFACO, as amended, in accordance with Sections 9.0 and 10.0 of the HFFACO Action Plan. In addition, the Permittees must maintain all reports and other information developed in whole, or in part, to implement the requirements of Permit Condition II.Y.2.b, including reports of investigations and all raw data, in the Hanford Facility Operating Record in accordance with Permit Condition II.I. Information that is maintained in the Hanford Site Administrative Record may be incorporated into the Hanford Facility Operating Record by reference.

II.Y.2.c For each TSD unit, or group of units when the Permittees submit a certification of closure or a certification of completion of post-closure care, or at an earlier time agreed to by Ecology and the Permittees, the Permittees must, at the same time, either:

II.Y.2.c.i Document that the activities completed under closure and/or post-closure satisfy the requirements for corrective action; or

II.Y.2.c.ii If the activities completed under closure and/or post-closure care do not satisfy corrective action requirements, identify the remaining corrective action requirements and the schedule under which they will be satisfied, if remaining corrective action requirements will be satisfied by work developed and carried out under the HFFACO provisions for R-CPP units or CPP units, a reference to the appropriate R-CPP or CPP process and schedule will suffice.

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II.Y.2.c.iii Ecology will make final decisions as to whether the work completed under closure or post-closure care satisfies corrective action, specify any unit-specific corrective action requirements, and incorporate the decision into this Permit in accordance with the permit modification procedures of WAC 173-303-830.

II.Y.2.d Notwithstanding any other condition in this Permit, Ecology may directly exercise any administrative or judicial remedy under the following circumstances:

II.Y.2.d.i Any discharge or release of dangerous waste, or dangerous constituents, which are not addressed by the HFFACO, as amended.

II.Y.2.d.ii Discovery of new information regarding dangerous constituents or dangerous waste management, including but not limited to, information about releases of dangerous waste or dangerous waste constituents which are not addressed under the HFFACO, as amended.

II.Y.2.d.iii A determination that action beyond the terms of the HFFACO, as amended, is necessary to abate an imminent and substantial endangerment to the public health, or welfare, or to the environment.

II.Y.3 Releases of Dangerous Waste or Dangerous Constituents Not Covered By the HFFACO:

II.Y.3.a US Ecology.

II.Y.3.a.i The following SWMUs are not covered by the HFFACO:

- US Ecology, Inc., SWMU 1: Chemical Trench.
- US Ecology, Inc., SWMU 2-13: Low-Level Radioactive Waste Trenches 1 through 11A.
- US Ecology, Inc., SWMU 17: Underground Resin Tank.

II.Y.3.a.ii Selected SWMUs identified in Permit Condition II.Y.3.a.i are currently being investigated by US Ecology in accordance with Ecology Agreed Order No. 3834, issued under the authority of the Model Toxics Control Act, RCW 70A.305.010 (MTCA). After completion of the MTCA investigation and prior to the beginning of the 2014 construction season, Ecology will make a tentative decision as to whether additional investigation or cleanup is necessary to protect human health or the environment for the SWMUs identified in Permit Condition II.Y.3.a.i, and publish that decision as a draft permit in accordance with WAC 173-303-840(10). Following the associated public comment period, and consideration of any public comments received during the public comment period, Ecology will publish a final Permit conditions under WAC 173-303-840(8) either:

- A decision that corrective action is not necessary to protect human health or the environment;
- An extension to the schedule established under Permit Condition II.Y.3.a.ii, or
- A decision, that corrective action, in accordance with Permit Condition II.Y.1, is necessary to protect human health or the environment.

II.Y.3.a.iii If Ecology decides under Permit Condition II.Y.3.a.ii that corrective action is necessary to protect human health or the environment, the Permittees may challenge Ecology's authority to impose such corrective action requirements through a timely appeal of such permit modification, without argument from Ecology that the right to raise such challenge has been waived by a failure to fully litigate that issue through an appeal taken within 30 days of the issuance of this Permit, and with argument from the Permittees that such

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requirement fails to satisfy a cause for permit modification under WAC 173-303-830(3)(a). Within 180 days of receipt of the above permit modification, the Permittees must submit, for Ecology review and approval, a plan to conduct corrective action in accordance with Permit Condition II.Y.1. Approved corrective action plans under this condition will be incorporated into this Permit in accordance with the Permit Modification Procedures of WAC 173-303-830.

II.Y.3.b Selected SWMUs identified in Permit Condition II.Y.3.a.i are currently being investigated by US Ecology in accordance with Comprehensive Investigation US Ecology – Hanford Operations Work plan. Following completion of this investigation and any closure required of such SWMU under the authority of the Washington State Department of Health, or within one year of the effective date of this Permit Condition, whichever is earlier, Ecology will make a tentative decision as to whether additional investigation or cleanup is necessary to protect human health or the environment for the SWMUs identified in Permit Condition II.Y.3.a.i, and publish that decision as a draft permit in accordance with WAC 173-303-840(10). Following the associated public comment period, and consideration of any public comments received during the public comment period, Ecology will publish as final Permit conditions under WAC 173-303-840(8) either:

II.Y.3.b.i A decision that corrective action is not necessary to protect human health or the environment;

II.Y.3.b.ii An extension to the schedule established under Permit Condition II.Y.3.a.ii, or

II.Y.3.b.iii A decision, that corrective action in accordance with Permit Condition II.Y.1, is necessary to protect human health or the environment.

II.Y.3.c If Ecology decides under Permit Condition II.Y.3.a.ii that corrective action is necessary to protect human health or the environment, the Permittees may challenge Ecology's authority to impose such corrective action requirements through a timely appeal of such permit modification, without argument from Ecology that the right to raise such challenge has been waived by a failure to fully litigate that issue through an appeal taken within 30 days of the issuance of this Permit, and with argument from the Permittees that such requirement fails to satisfy a cause for permit modification under WAC 173-303-830(3)(a). Within 180 days of receipt of the above permit modification, the Permittees must submit, for Ecology review and approval, a plan to conduct corrective action in accordance with Permit Condition II.Y.1. Approved corrective action plans under this condition will be incorporated into this Permit in accordance with the Permit Modification Procedures of WAC 173-303-830.

II.Y.3.d Newly Identified Solid Waste Management Units and Newly Identified Releases of Dangerous Waste or Dangerous Waste Constituents.

The Permittees must notify Ecology of all newly-identified SWMUs and all newly-identified areas of concern at the Facility. For purposes of this condition, a "newly-identified" SWMU or a "newly-identified" AOCs is a unit or area not identified in the HFFACO, as amended, on the effective date of this condition and not identified by Permit Condition II.Y.3.a. Notification to Ecology must be in writing and must include, for each newly-identified unit or area, the information required by WAC 173-303-806(4)(a)(xxiii) and WAC 173-303-806(4)(a)(xxiv). Notification to Ecology must occur at least once every calendar year, in January, and must include all units and areas newly identified since the last notification, except that if a newly identified unit or area may present an imminent and substantial endangerment to human health or the environment,

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notification must occur within five days of identification of the unit or area. If information required by WAC 173-303-806(4)(a)(xxiii) or WAC 173-303-806(4)(a)(xxiv) is already included in the Waste Information Data System, it may be incorporated by reference into the required notification.

II.Z Air Emission Standards for Process Vents

The Permittees will comply with applicable requirements of WAC 173-303-690 for any unit with a process vent as described in WAC 173-303-690(1)(d). Threshold limits applied to process vents potentially requiring emission controls subject to WAC 173-303-690 are evaluated based on the summation of applicable emission sources for the entire Hanford Facility. When the summed emissions fall below threshold limits in 40 CFR 264.1032(a)(1), no emission control devices are required under 40 CFR 264.1032(a)(2). If threshold limits in 40 CFR 264.1032(a)(1) are predicted to be exceeded, the Permittees will immediately report to Ecology as described in WAC 173-303-810(14)(f) to determine the appropriate course of action. Unit-specific information is contained in Parts III and V of the Permit for applicable units.

II.AA Air Emission Standards for Equipment Leaks

The Permittees will comply with applicable requirements of WAC 173-303-691 for leaks from certain equipment as described in WAC 173-303-691(b), unless exempted by WAC 173-303-691(1)(e) or (f). Air emission standards apply to such equipment that contacts or contains hazardous wastes with organic concentrations of at least 10 percent by weight. Unit-specific information is contained in Part III of the Permit for applicable units.

II.BB Air Emission Standards for Tanks, Surface Impoundments, and Containers

The Permittees shall comply with applicable requirements of WAC 173-303-692 for the treatment, storage, and/or disposal of hazardous waste in containers, tanks, and surface impoundment areas, unless exempted by WAC 173-303-692(1)(b). A container, tank, or surface impoundment is exempt under WAC 173-303-692(1)(b)(vi) if it is used solely for the management of radioactive mixed waste in accordance with all applicable regulations under the authority of the AEA. Unit-specific information is contained in Parts III and V of the Permit for applicable units.

PART III UNIT-SPECIFIC CONDITIONS FOR FINAL STATUS OPERATIONS

Operating Unit 1, Low-Activity Waste Pretreatment System

Operating Unit 3, Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility

Operating Unit 4, 242-A Evaporator

Operating Unit 5, 325 HWTUs

Operating Unit 6, CWC

Operating Unit 8, 222-S Laboratory Complex

Operating Unit 9, T-Plant Complex

Operating Unit 10, Waste Treatment and Immobilization Plant

Operating Unit 11, Integrated Disposal Facility

Operating Unit 12, Double-Shell Tank System and 204-AR Waste Unloading Station

Operating Unit 14, Waste Encapsulation and Storage Facility Pool Cells, Hot Cell G, and Truckport

Operating Unit 16, 400 Area Waste Management Unit

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Operating Unit 17, Low-Level Burial Grounds Trenches 31 and 34

Operating Unit 18, Low-Level Burial Grounds Trench 94

Operating Unit 19, Capsule Interim Storage

PART IV UNIT-SPECIFIC CONDITIONS FOR CORRECTIVE ACTION

CA-1, Waste Management Units

CA-2, Groundwater Operable Units

PART V UNIT-SPECIFIC CONDITIONS FOR UNITS UNDERGOING CLOSURE

Closure Unit 4, Single Shell Tank System

Closure Unit 6, Waste Encapsulation and Storage Facility Hot Cells A through F

Closure Unit 11, 216-A-29 Ditch

Closure Unit 12, 216-A-36B Crib

Closure Unit 13, 216-A-37-1 Crib

Closure Unit 14, 216-S-10 Pond

Closure Unit 15, 241-CX Tank System

Closure Unit 19, Hexone Storage and Treatment

Closure Unit 20, Non-Radioactive Dangerous Waste Landfill

Closure Unit 21, 216-B-63 Trench

Closure Unit 22, 216-B-3 Main Pond

Closure Unit 24, B Plant

Closure Unit 25, PUREX

Closure Unit 26, Low-Level Burial Ground (Green Islands)

Closure Unit 27, 277-T Building Non-CAFO

Closure Unit 28, 277-T Outdoor Storage Area CAFO

Closure Unit 29, 271-T Cage CAFO

Closure Unit 30, 211-T Pad CAFO

Closure Unit 31, 324 Building

Closure Unit 33, PUREX Tanks TK-P4 and TK-40

Closure Unit 34, CWC Outdoor Storage Area A CAFO

Closure Unit 35, CWC Outdoor Storage Area B CAFO

Closure Unit 36, CWC D-10 Tank Outdoor Storage Area Non-CAFO

Closure Unit 37, 221-T Sand Filter Pad CAFO

Closure Unit 38, 221-T R5 WSA CAFO

Closure Unit 39, 2401-W Waste Storage Building

Closure Unit 40, 2706-TB Tank System Non-CAFO

Closure Unit 41, 221-T Railroad Cut Non-CAFO

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Closure Unit 42, 221-T Pipe Gallery Non-CAFO

Closure Unit 43, 221-T Tank System Non-CAFO

Closure Unit 44, 400 Area Waste Management Unit

Closure Unit 45, DST 241-AY-102

Closure Unit 46, 221-T Cell 11-L

Closure Unit 47 Waste Receiving and Processing Facility

Closure Unit 48 325 High-Level Vault Tanks

PART VI UNIT-SPECIFIC CONDITIONS FOR UNITS IN POST-CLOSURE

Post-Closure Unit 1, 300 APT

Post-Closure Unit 2, 183-H SEB

UNITS RETIRED FROM THE PERMIT

100 D Ponds (Closed 8/9/99)

105-DR Large Sodium Fire Facility (Closed 7/1/04)

100-NR-2 Operable Unit (9/30/09)

200 West Area Ash Pit Demolition Site (Closed 11/28/95)

2101-M Pond (Closed 11/28/95)

216-B-3 Expansion Ponds (Closed 7/31/95)

218-E-8 Borrow Pit Demolition Site (Closed 11/28/95)

224-T Transuranic Waste Storage and Assay Facility (Closed 11/12/08)

241-Z Treatment and Storage Tanks (Closed 2/22/07)

2727-S Nonradioactive Dangerous Waste Storage Facility (Closed 7/31/95)

300 Area Solvent Evaporator (Closed 7/31/95)

300 Area Waste Acid Treatment System (Closed 10/30/2005)

303-K Storage Facility (Closed 7/22/02)

303-M Oxide Facility (Closed 6/15/06)

304 Concretion Facility (Closed 1/21/96)

305-B Storage Facility (Closed 7/2/07)

3718-F Alkali Metal Treatment and Storage Facility Closure Plan (Closed 8/4/98)

4843 Alkali Metal Storage Facility Closure Plan (Closed 4/14/97)

Hanford Patrol Academy Demolition Site (Closed 11/28/95)

Plutonium Finishing Plant Treatment Unit (Closed 2/8/05)

Simulated High-Level Waste Slurry Treatment and Storage Unit (Closed 10/23/95)

FS-1 Outdoor Container Storage Area (Closed 10/25/2016)

616 Nonradioactive Dangerous Waste Storage Facility (Closed 9/5/01)

331-C Storage Unit (Closed 7/22/11)

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1 207-A South Retention Basin (Closed 5/18/17)
2 1324-N Surface Impoundment & 1324-NA Percolation Pond (Closed 4/25/2017)
3 1706-KE Waste Treatment System Facility (Closed 1/11/18)
4 600 Area Purgewater Storage and Treatment Facility (Closed 2/16/18)
5 1301-N Liquid Waste Disposal Facility (Closed 11/28/18)
6 1325-N Liquid Waste Disposal Facility (Closed 11/28/18)
7 276-BA Organic Storage Area (Closed 5/18/2020)

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